COMMONWEALTH OF PENNSYLVANIA

TEST PROTOCOL

FOR

RE-EXAMINATION OF

EXPRESSPOLL 5000 WITH EZROSTER V. 2.7.12.4 AND CARDWRITER 1.1.4 EXPRESSPOLL 5000 WITH EZROSTER V. 2.7.12.4 AND CARDWRITER 1.1.5 EXPRESSPOLL 5000 WITH EZROSTER V. 2.7.12.4 AND CARDWRITER 1.1.6

January 23, 2014

Harrisburg, Pennsylvania

General Electronic Poll Book Requirements

- The computer list shall be in a form prescribed and approved by the Secretary. (25 Pa. C.S. § 1402(b)(2)).
- For each election district, the list shall contain the names of the registered electors alphabetically by last name. (25 Pa.C.S. § 1402(b)(2)).
- Each page of the list (or each screen) shall contain the name of the county. (25 Pa.C.S. § 1402(b)(2)).
- Each page of the list (or each screen) shall contain the election district. (25 Pa.C.S. § 1402(b)(2)).
- Each page of the list (or each screen) shall contain the date of the election. (25 Pa.C.S. § 1402(b)(2)).
- Each page of the list (or each screen) shall contain the date and time the list was prepared. (25 Pa.C.S. § 1402(b)(2)).

The list must contain:

- A legible signature. (25 Pa.C.S. § 1402(b)(2)).
- The street address. (25 Pa.C.S. § 1402(b)(2)).
- Political party of each registered elector. (25 Pa.C.S. § 1402(b)(2); 4 Pa. Code § 183.11(b)(3)).
- Suitable space for insertion of the signature of the registered elector. (25 P.S. § 3050(a.3); 25 Pa.C.S. § 1402(b)(2)).
- Suitable space for insertion by the proper election official of the number and letter of the stub of the ballot issued to the registered elector or the registered elector's number in the order of admission to the voting systems. (25 P.S. § 3050(a.3); 25 Pa.C.S. § 1402(b)(2)).
- Suitable space for insertion of the initials of the election official who enters the record of voting in the district register. (25 P.S. § 3050(a.3); 25 Pa.C.S. § 1402(b)(2)).
- Indication of whether the elector needs assistance to vote and, if so, the nature of the disability. (25 Pa.C.S. § 1402(b)(2)).

- The date of birth of the registrant. (4 Pa. Code § 183.11(b)(4)).
- The SURE registration number of the registrant. (4 Pa. Code § 183.11(b)(5)).
- An elector's affirmation appears above each signature section and contains the verbiage "I hereby certify that I am qualified to vote in this election." (25 P.S. § 3043).
- An indication of whether the registrant's status is active or inactive. (25 Pa.C.S. § 1901(c); 4 Pa. Code § 183.11(b)(6)).

Flags Required by the SURE System:

- For voters who are "Inactive," affirmation is required. (25 Pa.C.S. § 1901(c) and (d)(3); 4 Pa. Code § 183.11).
- "ID Required" Indication of whether the voter needs to present voter identification. An elector who appears to vote in an election district for the first time must present valid voter identification. (25 P.S. § 3050(a)).
- "Absentee Ballot" If an elector who voted an absentee ballot is in the municipality on Election Day, he or she must vote in the precinct, and the absentee ballot is voided. (25 P.S. § 3146.6(b)).
- "Must vote in person"- Indication of whether the voter needs to present voter identification if the elector votes for the first time by mail. (Federal: 42 U.S.C. § 15483(b)).

ACCUVOTE TSX 4.6.4.106

Test Case Identifier: Cardwriter Functional Verification (General Election)			
			Express Poll 5000 card writing functionality must be able to program voter
			s card media with the proper keys to allow for ballot styles based on
			aphical subdivisions to properly be retrieved and presented to a voter in a
			ral Election.
Test Objective: T	To determine if the card w	writer	Test Configuration: Precinct tabulation device configured as described
	Express Poll 5000 can pro		for normal election day operation by Pennsylvania procedures and/or the
	or voter access for one time u		device manufacturer. A TSx unit will be loaded with all precincts from the
			"Pennsylvania Certification General Election."
Test Equipment:		Expre	ess Poll 5000, 10 voter access cards, TSx units
Special Procedura	l Requirements:	None	
Assumptions:	•	None	
Step			Description
1000			
	From the Express Poll unit en	code tw	o voter access cards for each precinct in the General Election.
	1.		1
	Expected: The voter access ca	ards can	be programmed.
	T		
	Actual:		
1010			
	Insert the first Precinct 1 votes	r access	card into the TSx.
	<i>Expected:</i> The TSx accepts the	ne voter	access card and displays the ballot style of Precinct 1.
	Actual:		
1020			
	-	o advano	ce the through the ballot. Observe the contests and candidates for Precinct 1 ballot
	style are displayed.		
	Expected: All contests and ca	andidate	s are accurately displayed.
	Actual:		
1030			
	Use the designated method to	navigat	e to the first contest and select the first candidate.
	<i>Expected:</i> The TSx navigates	to the fi	irst contest and the selection for the first candidate is input.
	Actual:		
1040			
	Use the designated method to	o advanc	the "Ballot Review." Observe the "Ballot Review" to see if the above selections
	are indicated. Use the designation	ated met	thod to cast the voted selections.

	<i>Expected:</i> The precinct tabulation device advances to the "Ballot Review" screen after review and ballot is cast successfully. <i>Actual:</i>
10 50	
1050	Remove the ejected voter access card or use the designated method to remove the used voter access card. Reinsert the used voter access card.
	Expected: The TSx should give an indication that the voter access card has been used.
	Actual:
1060	
1000	Insert the second Precinct 1 voter access card into the TSx.
	Expected: The TSx accepts the voter access card and displays the ballot style of Precinct 1.
	Actual:
1070	
2010	Select the first candidate in every "1 of 1" race, the first N in every "N of M" race, and "Yes" for every Referendum race.
	<i>Expected:</i> Every candidate can be input as described.
	Actual:
1080	Use the designated method to advance the "Ballot Review." Observe the "Ballot Review" to see if the above selections are indicated. Use the designated method to cast the voted selections.
	<i>Expected:</i> The precinct tabulation device advances to the "Ballot Review" screen after review and ballot is cast successfully.
	Actual:
1090	Repeat steps 1010- 1080 excluding step 1050 for each precinct.
	Expected: Repeat 1010 Repeat 1020 Repeat 1030 Repeat 1040 Repeat 1040 Repeat 1060 Repeat 1070 Repeat 1080 Repeat 1080

	Actual:
1100	Close the polls and print the closed polls report tape.
	<i>Expected:</i> The polls closed and a report is printed. <i>Actual:</i>
1110	Review the closed polls report to ensure all selections input above are recorded and reported correctly.
	<i>Expected:</i> The closed polls report presents the accumulated totals for the selections input above. <i>Actual:</i>
	ation of the Test Results: The intended selections input above are recorded, stored, and reported as input by er access cards are accepted and display the proper ballot style and cannot be reused.

Test Case Identifier: Cardwriter Functional Verification (Closed Primary Election)		
		The Express Poll 5000 card writing functionality must be able to program voter
		access card media with the proper keys to allow for ballot styles based on
		geographical subdivisions and party affiliation to properly be retrieved and
		presented to a voter in a Closed Primary Election.
Test Objective: T	o determine if the card w	writer Test Configuration: Precinct tabulation device configured as described
	Express Poll 5000 can pro	
write smart cards for	or voter access for one time u	use. device manufacturer. A TSx unit will be loaded with all precincts and
		parties from the "Pennsylvania Certification Closed Primary Election."
Test Equipment:		Express Poll 5000, 10 voter access cards, TSx units
Special Procedura	l Requirements:	None
Assumptions:		None
Step		Description
1000		^
	From the Express Poll unit en	ncode one voter access cards for each party and each precinct in the Closed Primary Election.
	_	
	Expected: The voter access ca	cards can be programmed.
	Actual:	
1010		
1010	Insert the Democratic voter a	access card for Precinct 1 into the TSx.
	Insert the Democratic voter ac	access card for Freehict 1 mild the TSX.
	Expected: The TSy accepts the	the voter access card and displays the ballot style for Democratic party for Precinct 1.
	Expected. The TSX accepts in	the voter access card and displays the banot style for Democratic party for Freenice 1.
	Actual:	
	Actual.	
1020		
1020	Use the designated method to	to advance the through the ballot. Observe the contests and candidates for Democratic party
	for Precinct 1 ballot style are	-
		alspiayea.
	<i>Expected</i> : All contests and ca	candidates are accurately displayed.
	Actual:	
1030		
	Use the designated method to	o navigate to the first contest and select the first candidate.
	<i>Expected:</i> The TSx navigates	s to the first contest and the selection for the first candidate is input.
		····· · · · · · · · · · · · · · · · ·
	Actual:	
1040		
1010	Use the designated method to	to advance the "Ballot Review." Observe the "Ballot Review" to see if the above selections
		nated method to cast the voted selections.
	6	

	<i>Expected:</i> The precinct tabulation device advances to the "Ballot Review" screen after review and ballot is cast successfully. <i>Actual:</i>
1050	Remove the ejected voter access card or use the designated method to remove the used voter access card. Reinsert the used voter access card.
	Expected: The TSx should give an indication that the voter access card has been used.
	Actual:
1060	
	Insert the Republican voter access card for Precinct 1 into the TSx.
	<i>Expected:</i> The TSx accepts the voter access card and displays the ballot style of Precinct 1.
	Actual.
1070	Select the first candidate in every "1 of 1" race, the first N in every "N of M" race, and "Yes" for every Referendum race.
	<i>Expected:</i> Every candidate can be input as described.
	Actual:
1080	Use the designated method to advance the "Ballot Review." Observe the "Ballot Review" to see if the above selections are indicated. Use the designated method to cast the voted selections.
	<i>Expected:</i> The precinct tabulation device advances to the "Ballot Review" screen after review and ballot is cast successfully.
	Actual:
1090	Repeat steps 1010- 1080 excluding step 1050 for each precinct.
	Expected: Repeat 1010 Repeat 1020 Repeat 1030 Repeat 1040 Repeat 1060 Repeat 1070 Repeat 1080

	Actual:
1100	Close the polls and print the closed polls report tape.
	<i>Expected:</i> The polls closed and a report is printed. <i>Actual:</i>
1110	Review the closed polls report to ensure all selections input above are recorded and reported correctly.
	<i>Expected:</i> The closed polls report presents the accumulated totals for the selections input above. <i>Actual:</i>
	ation of the Test Results: The intended selections input above are recorded, stored, and reported as input by or access cards are accepted and display the proper ballot style and cannot be reused.

acces		The Express Poll 5000 card writing functionality must be able to program vote access card media with the proper keys to allow for ballot styles based on	
		geographical subdivisions to properly be retrieved and presented to a voter in a	
Test Objectives T	o determine if the card wri	General Election. iter Test Configuration: Precinct tabulation device configured as described	
v	Express Poll 5000 can prope		
•	r voter access for one time use		
		"Pennsylvania Certification General Election."	
Test Equipment:	E	Express Poll 5000, 10 voter access cards, TSx units	
Special Procedural	Requirements: N	None	
Assumptions:	Ν	None	
Step		Description	
1000			
	From the Express Poll unit, enco	ode two voter access cards for each precinct in the General Election.	
	Even of the The sector second		
	<i>Expected:</i> The voter access card	is can be programmed.	
	Actual:		
	Аснин.		
1010			
1010	Insert the first Precinct 1 voter a	pages and into the TSy	
	filsert the filst Flechict 1 voter a	ccess card into the TSX.	
	<i>Expected</i> : The TSx accepts the	voter access card and displays the ballot style of Precinct 1.	
	Actual:		
1020			
	-	dvance the through the ballot. Observe the contests and candidates for Precinct 1 ballo	
	style are displayed.		
	European All contacts and cond	lidatas ara approvedalla displayad	
	<i>Expected:</i> All contests and cand	indates are accurately displayed.	
	Actual:		
1030			
	Use the designated method to na	avigate to the first contest and select the first candidate.	
	<i>Expected:</i> The TSx navigates to	the first contest and the selection for the first candidate is input.	
	Antonia		
	Actual:		
1040			
1040	Use the designated method to a	dvance the "Ballot Review." Observe the "Ballot Review" to see if the above selection	
	Use the designated method to a	u^{α} and u^{α} band u^{α	

	<i>Expected:</i> The precinct tabulation device advances to the "Ballot Review" screen after review and ballot is cast successfully. <i>Actual:</i>
1050	Remove the ejected voter access card or use the designated method to remove the used voter access card. Reinsert the used voter access card.
	<i>Expected:</i> The TSx should give an indication that the voter access card has been used.
1060	Insert the second Precinct 1 voter access card into the TSx.
	<i>Expected:</i> The TSx accepts the voter access card and displays the ballot style of Precinct 1.
	Actual:
1070	Select the first candidate in every "1 of 1" race, the first N in every "N of M" race, and "Yes" for every Referendum race.
	<i>Expected:</i> Every candidate can be input as described.
	Actual:
1080	Use the designated method to advance the "Ballot Review." Observe the "Ballot Review" to see if the above selections are indicated. Use the designated method to cast the voted selections.
	<i>Expected:</i> The precinct tabulation device advances to the "Ballot Review" screen after review and ballot is cast successfully.
	Actual:
1090	Repeat steps 1010- 1080 excluding step 1050 for each precinct.
	Expected: Repeat 1010 Repeat 1020 Repeat 1030 Repeat 1040 Repeat 1040 Repeat 1060 Repeat 1070 Repeat 1080 Repeat 1080

	Actual:
1100	Close the polls and print the closed polls report tape.
	<i>Expected:</i> The polls closed and a report is printed. <i>Actual:</i>
1110	Review the closed polls report to ensure all selections input above are recorded and reported correctly.
	<i>Expected:</i> The closed polls report presents the accumulated totals for the selections input above. <i>Actual:</i>
	ation of the Test Results: The intended selections input above are recorded, stored, and reported as input by r access cards are accepted and display the proper ballot style and cannot be reused.

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Test Equipment:			s Poll 5000, 10 voter access cards, TSx units	
Special Procedural	Requirements:	None		
Assumptions:		None		
Step			Description	
1000				
	From the Express Poll unit en	code one	voter access card for each party and each precinct in the Closed Primary Election.	
	l			
	Expected: The voter access ca	rds can b	e programmed.	
	Actual:			
1010				
	Insert the Democratic voter ac	cess card	for Precinct 1 into the TSx.	
	Expected: The TSx accepts the	ne voter a	ccess card and displays the ballot style for Democratic party for Precinct 1.	
	Actual:			
1020				
	Use the designated method to	advance	the through the ballot. Observe the contests and candidates for Democratic party	
	for Precinct 1 ballot style are	displayed	L. The second	
	Expected: All contests and ca	indidates	are accurately displayed.	
	Actual:			
1030				
	Use the designated method to	navigate	to the first contest and select the first candidate.	
	Expected: The TSx navigates	to the firs	st contest and the selection for the first candidate is input.	
	Actual:			
1040		1		
	-		the "Ballot Review." Observe the "Ballot Review" to see if the above selections	
	are indicated. Use the designation	ated meth	od to cast the voted selections.	

	<i>Expected:</i> The precinct tabulation device advances to the "Ballot Review" screen after review and ballot is cast successfully. <i>Actual:</i>
1050	Remove the ejected voter access card or use the designated method to remove the used voter access card. Reinsert the used voter access card.
	<i>Expected:</i> The TSx should give an indication that the voter access card has been used. <i>Actual:</i>
1060	
	Insert the Republican voter access card for Precinct 1 voter access card into the TSx.
	Expected: The TSx accepts the voter access card and displays the ballot style of Precinct 1.
	Actual:
1070	Select the first candidate in every "1 of 1" race, the first N in every "N of M" race, and "Yes" for every Referendum race.
	<i>Expected:</i> Every candidate can be input as described.
	Actual:
1080	Use the designated method to advance the "Ballot Review." Observe the "Ballot Review" to see if the above selections are indicated. Use the designated method to cast the voted selections.
	<i>Expected:</i> The precinct tabulation device advances to the "Ballot Review" screen after review and ballot is cast successfully.
	Actual:
1090	Repeat steps 1010- 1080 excluding step 1050 for each precinct.
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	Actual:
1100	Close the polls and print the closed polls report tape.
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1110	Review the closed polls report to ensure all selections input above are recorded and reported correctly.
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Test Equipment:		Expre	ss Poll 5000, 10 voter access cards, TSx units
Special Procedura	l Requirements:	None	
Assumptions:		None	
Step			Description
1000			•
	From the Express Poll unit, er	ncode tw	vo voter access cards for each precinct in the General Election.
	_		
	Expected: The voter access ca	ards can	be programmed.
	Actual:		
1010			
1010	Insert the first Precinct 1 vote	r access	card into the TSx
	insert the first i reemet i vote	r uccess	
	Frnected: The TSx accents the	ie voter	access card and displays the ballot style of Precinct 1.
	<i>Expected.</i> The 15x accepts in	ie votei	access card and displays the bandt style of Freehet 1.
	Actual:		
1020			
1020	Use the designated method to	advano	ce the through the ballot. Observe the contests and candidates for Precinct 1 ballot
	style are displayed.	, advanc	
	Expected: All contests and ca	ndidate	s are accurately displayed.
	Actual:		
1030			
	Use the designated method to	navigat	e to the first contest and select the first candidate.
	Expected: The TSx navigates	to the fi	irst contest and the selection for the first candidate is input.
			-
	Actual:		
1040			
	Use the designated method to	o advanc	the "Ballot Review." Observe the "Ballot Review" to see if the above selections
	are indicated. Use the design	ated met	thod to cast the voted selections.

	<i>Expected:</i> The precinct tabulation device advances to the "Ballot Review" screen after review and ballot is cast successfully. <i>Actual:</i>
10 50	
1050	Remove the ejected voter access card or use the designated method to remove the used voter access card. Reinsert the used voter access card.
	Expected: The TSx should give an indication that the voter access card has been used.
	Actual:
1060	
1000	Insert the second Precinct 1 voter access card into the TSx.
	Expected: The TSx accepts the voter access card and displays the ballot style of Precinct 1.
	Actual:
1070	
2010	Select the first candidate in every "1 of 1" race, the first N in every "N of M" race, and "Yes" for every Referendum race.
	<i>Expected:</i> Every candidate can be input as described.
	Actual:
1080	Use the designated method to advance the "Ballot Review." Observe the "Ballot Review" to see if the above selections are indicated. Use the designated method to cast the voted selections.
	<i>Expected:</i> The precinct tabulation device advances to the "Ballot Review" screen after review and ballot is cast successfully.
	Actual:
1090	Repeat steps 1010- 1080 excluding step 1050 for each precinct.
	Expected: Repeat 1010 Repeat 1020 Repeat 1030 Repeat 1040 Repeat 1060 Repeat 1070 Repeat 1080

	Actual:
1100	Close the polls and print the closed polls report tape.
	<i>Expected:</i> The polls closed and a report is printed. <i>Actual:</i>
1110	Review the closed polls report to ensure all selections input above are recorded and reported correctly.
	<i>Expected:</i> The closed polls report presents the accumulated totals for the selections input above. <i>Actual:</i>
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Test Case Identifie	er: Cardwriter Functional Ve	rificatio	n (Closed Primary Election)	
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Test Objective: T	o determine if the card v		Test Configuration: Precinct tabulation device configured as described	
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	r voter access for one time u		device manufacturer. A TSx unit will be loaded with all precincts and	
			parties from the "Pennsylvania Certification Closed Primary Election."	
Test Equipment:		Express	s Poll 5000, 10 voter access cards, TSx units	
Special Procedural	Requirements:	None		
Assumptions:		None		
Step			Description	
1000				
	From the Express Poll unit en	code one	voter access card for each party and each precinct in the Closed Primary Election.	
	l			
	<i>Expected:</i> The voter access ca	rds can b	e programmed.	
	Actual:			
1010				
	Insert the Democratic voter ac	cess card	for Precinct 1 into the TSx.	
	Expected: The TSx accepts the	ne voter a	ccess card and displays the ballot style for Democratic party for Precinct 1.	
	Actual:			
1020				
	Use the designated method to	advance	the through the ballot. Observe the contests and candidates for Democratic party	
	for Precinct 1 ballot style are	displayed	L. The second	
	Expected: All contests and ca	indidates	are accurately displayed.	
	Actual:			
1030				
	Use the designated method to	navigate	to the first contest and select the first candidate.	
	Expected: The TSx navigates	to the firs	st contest and the selection for the first candidate is input.	
	Actual:			
1040		1		
	-		the "Ballot Review." Observe the "Ballot Review" to see if the above selections	
	are indicated. Use the designation	ated meth	od to cast the voted selections.	

	<i>Expected:</i> The precinct tabulation device advances to the "Ballot Review" screen after review and ballot is cast successfully. <i>Actual:</i>
1050	Remove the ejected voter access card or use the designated method to remove the used voter access card. Reinsert the used voter access card.
	<i>Expected:</i> The TSx should give an indication that the voter access card has been used. <i>Actual:</i>
1060	
	Insert the Republican voter access card for Precinct 1 voter access card into the TSx.
	Expected: The TSx accepts the voter access card and displays the ballot style of Precinct 1.
	Actual:
1070	Select the first candidate in every "1 of 1" race, the first N in every "N of M" race, and "Yes" for every Referendum race.
	<i>Expected:</i> Every candidate can be input as described.
	Actual:
1080	Use the designated method to advance the "Ballot Review." Observe the "Ballot Review" to see if the above selections are indicated. Use the designated method to cast the voted selections.
	<i>Expected:</i> The precinct tabulation device advances to the "Ballot Review" screen after review and ballot is cast successfully.
	Actual:
1090	Repeat steps 1010- 1080 excluding step 1050 for each precinct.
	Expected: Repeat 1010 Repeat 1020 Repeat 1030 Repeat 1040 Repeat 1060 Repeat 1070 Repeat 1080

	Actual:
1100	Close the polls and print the closed polls report tape.
	<i>Expected:</i> The polls closed and a report is printed. <i>Actual:</i>
1110	Review the closed polls report to ensure all selections input above are recorded and reported correctly.
	<i>Expected:</i> The closed polls report presents the accumulated totals for the selections input above. <i>Actual:</i>
	ation of the Test Results: The intended selections input above are recorded, stored, and reported as input by or access cards are accepted and display the proper ballot style and cannot be reused.

ACCUVOTE TSX 4.7.8

Test Case Identifie	er: Cardwriter Functional Ver	rificatio	n (General Election)	
			spress Poll 5000 card writing functionality must be able to program voter	
		access card media with the proper keys to allow for ballot styles based on		
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			al Election.	
Test Objective: T	o determine if the card w	riter 7	Test Configuration: Precinct tabulation device configured as described	
	Express Poll 5000 can prop		for normal election day operation by Pennsylvania procedures and/or the	
write smart cards for	r voter access for one time us		device manufacturer. A TSx unit will be loaded with all precincts from the	
			"Pennsylvania Certification General Election."	
Test Equipment:		Expres	s Poll 5000, 10 voter access cards, TSx units	
Special Procedura	l Requirements:	None		
Assumptions:		None		
Step			Description	
1000				
	From the Express Poll unit end	code two	voter access cards for each precinct in the General Election.	
	Expected: The voter access can	rds can b	be programmed.	
	Actual:			
1010				
1010	Insert the first Precinct 1 voter	access c	eard into the TSx	
	inservice inservice involution	uccess c		
	<i>Expected</i> : The TSx accepts th	e voter a	access card and displays the ballot style of Precinct 1.	
		e voter u	ceess card and displays the barlot style of recenter r.	
	Actual:			
1020				
1020	Use the designated method to	advance	e the through the ballot. Observe the contests and candidates for Precinct 1 ballot	
	style are displayed.	uuvunee	the mough the bullot. Observe the concests and candidates for Freehet F ballot	
	Expected: All contests and car	ndidates	are accurately displayed.	
	Actual:			
1030				
	Use the designated method to	navigate	to the first contest and select the first candidate.	
		0		
	Expected: The TSx navigates t	to the first	st contest and the selection for the first candidate is input.	
	Actual:			
1040				
	Use the designated method to	advance	e the "Ballot Review." Observe the "Ballot Review" to see if the above selections	
	-		nod to cast the voted selections.	
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	<i>Expected:</i> The precinct tabulation device advances to the "Ballot Review" screen after review and ballot is cast successfully. <i>Actual:</i>
1050	Remove the ejected voter access card or use the designated method to remove the used voter access card. Reinsert the used voter access card.
	Expected: The TSx should give an indication that the voter access card has been used.
	Actual:
1060	
1000	Insert the second Precinct 1 voter access card into the TSx.
	Expected: The TSx accepts the voter access card and displays the ballot style of Precinct 1.
	Actual:
1070	
	Select the first candidate in every "1 of 1" race, the first N in every "N of M" race, and "Yes" for every Referendum race.
	<i>Expected:</i> Every candidate can be input as described.
	Actual:
1080	Use the designated method to advance the "Ballot Review." Observe the "Ballot Review" to see if the above selections are indicated. Use the designated method to cast the voted selections.
	<i>Expected:</i> The precinct tabulation device advances to the "Ballot Review" screen after review and ballot is cast successfully.
	Actual:
1090	Repeat steps 1010- 1080 excluding step 1050 for each precinct.
	Expected: Repeat 1010 Repeat 1020 Repeat 1030 Repeat 1040 Repeat 1060 Repeat 1070 Repeat 1080

	Actual:
1100	Close the polls and print the closed polls report tape.
	<i>Expected:</i> The polls closed and a report is printed. <i>Actual:</i>
1110	Review the closed polls report to ensure all selections input above are recorded and reported correctly.
	<i>Expected:</i> The closed polls report presents the accumulated totals for the selections input above. <i>Actual:</i>
	ation of the Test Results: The intended selections input above are recorded, stored, and reported as input by or access cards are accepted and display the proper ballot style and cannot be reused.

Test Case Identifie	er: Cardwriter Functional Ve	erification (Closed Primary Election)		
		The Express Poll 5000 card writing functionality must be able to program voter		
- unononai moqu		access card media with the proper keys to allow for ballot styles based on		
		geographical subdivisions and party affiliation to properly be retrieved and		
		presented to a voter in a Closed Primary Election.		
Test Objective: T	o determine if the card v	writer Test Configuration: Precinct tabulation device configured as described		
functionality of the	Express Poll 5000 can pro	perly for normal election day operation by Pennsylvania procedures and/or the		
write smart cards fo	or voter access for one time u			
		parties from the "Pennsylvania Certification Closed Primary Election."		
Test Equipment:		Express Poll 5000, 10 voter access cards, TSx units		
Special Procedura	l Requirements:	None		
Assumptions:		None		
Step		Description		
1000				
	From the Express Poll unit en	acode one voter access cards for each party and each precinct in the Closed Primary Election.		
	Expected: The voter access ca	ards can be programmed.		
	Actual:			
1010				
1010	Insert the Democratic voter a	ccess card for Precinct 1 into the TSx.		
	insert the Democratic voter at	ceess card for Freehet Finto the TSX.		
	Frnactad: The TSy accents th	he voter access card and displays the ballot style for Democratic party for Precinct 1.		
	Expected. The TSX accepts in	ne voter access card and displays the barlot style for Democrate party for Freehet 1.		
	Actual:			
1020				
1020	Use the designated method to	b advance the through the ballot. Observe the contests and candidates for Democratic party		
	for Precinct 1 ballot style are			
		an prayed.		
	Frnected: All contests and ca	andidates are accurately displayed.		
	Expected. The contests and co	and dates are accurately displayed.		
	Actual:			
1030				
1050	Use the designated method to	navigate to the first contest and select the first candidate.		
	6			
	<i>Expected:</i> The TSx navigates	to the first contest and the selection for the first candidate is input.		
	T T T T T T T T T T T T T T T T T T T	······································		
	Actual:			
1040				
1040	Use the designated method to	o advance the "Ballot Review." Observe the "Ballot Review" to see if the above selections		
	_	ated method to cast the voted selections.		
L				

	<i>Expected:</i> The precinct tabulation device advances to the "Ballot Review" screen after review and ballot is cast successfully. <i>Actual:</i>
1050	Remove the ejected voter access card or use the designated method to remove the used voter access card. Reinsert the used voter access card.
	Expected: The TSx should give an indication that the voter access card has been used.
	Actual:
1060	
	Insert the Republican voter access card for Precinct 1 into the TSx.
	<i>Expected:</i> The TSx accepts the voter access card and displays the ballot style of Precinct 1.
	Actual.
1070	Select the first candidate in every "1 of 1" race, the first N in every "N of M" race, and "Yes" for every Referendum race.
	<i>Expected:</i> Every candidate can be input as described.
	Actual:
1080	Use the designated method to advance the "Ballot Review." Observe the "Ballot Review" to see if the above selections are indicated. Use the designated method to cast the voted selections.
	<i>Expected:</i> The precinct tabulation device advances to the "Ballot Review" screen after review and ballot is cast successfully.
	Actual:
1090	Repeat steps 1010- 1080 excluding step 1050 for each precinct.
	Expected: Repeat 1010 Repeat 1020 Repeat 1030 Repeat 1040 Repeat 1060 Repeat 1070 Repeat 1080

	Actual:
1100	Close the polls and print the closed polls report tape.
	<i>Expected:</i> The polls closed and a report is printed. <i>Actual:</i>
1110	Review the closed polls report to ensure all selections input above are recorded and reported correctly.
	<i>Expected:</i> The closed polls report presents the accumulated totals for the selections input above. <i>Actual:</i>
	ation of the Test Results: The intended selections input above are recorded, stored, and reported as input by r access cards are accepted and display the proper ballot style and cannot be reused.

Test Case Identifier: Cardwriter Functional Verification (General Election)			
			Express Poll 5000 card writing functionality must be able to program voter
			s card media with the proper keys to allow for ballot styles based on
			aphical subdivisions to properly be retrieved and presented to a voter in a
			ral Election.
Test Objective: T	o determine if the card v	writer	Test Configuration: Precinct tabulation device configured as described
	Express Poll 5000 can pro		for normal election day operation by Pennsylvania procedures and/or the
•	or voter access for one time u		device manufacturer. A TSx unit will be loaded with all precincts from the
			"Pennsylvania Certification General Election."
Test Equipment:		Expre	ess Poll 5000, 10 voter access cards, TSx units
Special Procedura	l Requirements:	None	
Assumptions:		None	
Step			Description
1000			•
	From the Express Poll unit, er	ncode tv	vo voter access cards for each precinct in the General Election.
	_		
	Expected: The voter access ca	ards can	be programmed.
	Actual:		
1010			
1010	Insert the first Precinct 1 vote	r access	card into the TSx
	insert the first i reeniet i vote	i access	
	Frnactad: The TSy accents th	ne voter	access card and displays the ballot style of Precinct 1.
	<i>Expected.</i> The 15x accepts in		access card and displays the barlot style of Freehet 1.
	Actual:		
1020			
1020	Use the designated method to	advana	ce the through the ballot. Observe the contests and candidates for Precinct 1 ballot
	style are displayed.	, aa ta	te the unough the sunot. Observe the contests and candidates for recenter r sunot
	Expected: All contests and ca	ndidate	s are accurately displayed.
	Actual:		
1030			
	Use the designated method to	navigat	e to the first contest and select the first candidate.
	_	-	
	<i>Expected:</i> The TSx navigates	to the fi	irst contest and the selection for the first candidate is input.
	Actual:		
1040			
	Use the designated method to	o advanc	the "Ballot Review." Observe the "Ballot Review" to see if the above selections
	are indicated. Use the design	ated me	thod to cast the voted selections.

	<i>Expected:</i> The precinct tabulation device advances to the "Ballot Review" screen after review and ballot is cast successfully. <i>Actual:</i>
1050	Remove the ejected voter access card or use the designated method to remove the used voter access card. Reinsert the used voter access card.
	<i>Expected:</i> The TSx should give an indication that the voter access card has been used.
	Actual:
1060	Insert the second Precinct 1 voter access card into the TSx.
	<i>Expected:</i> The TSx accepts the voter access card and displays the ballot style of Precinct 1.
	Actual:
1070	Select the first candidate in every "1 of 1" race, the first N in every "N of M" race, and "Yes" for every Referendum race.
	<i>Expected:</i> Every candidate can be input as described.
	Actual:
1080	Use the designated method to advance the "Ballot Review." Observe the "Ballot Review" to see if the above selections are indicated. Use the designated method to cast the voted selections.
	<i>Expected:</i> The precinct tabulation device advances to the "Ballot Review" screen after review and ballot is cast successfully.
	Actual:
1090	Repeat steps 1010- 1080 excluding step 1050 for each precinct.
	Expected: Repeat 1010 Repeat 1020 Repeat 1030 Repeat 1040 Repeat 1040 Repeat 1060 Repeat 1070 Repeat 1080 Repeat 1080

	Actual:
1100	Close the polls and print the closed polls report tape.
	<i>Expected:</i> The polls closed and a report is printed. <i>Actual:</i>
1110	Review the closed polls report to ensure all selections input above are recorded and reported correctly.
	<i>Expected:</i> The closed polls report presents the accumulated totals for the selections input above. <i>Actual:</i>
	ation of the Test Results: The intended selections input above are recorded, stored, and reported as input by r access cards are accepted and display the proper ballot style and cannot be reused.

Test Case Identifie	er: Cardwriter Functional Ve	rification	(Closed Primary Election)		
			press Poll 5000 card writing functionality must be able to program voter		
			access card media with the proper keys to allow for ballot styles based on		
		geographical subdivisions and party affiliation to properly be retrieved and			
			ed to a voter in a Closed Primary Election.		
Test Objective: T	o determine if the card v		Cest Configuration: Precinct tabulation device configured as described		
functionality of the	Express Poll 5000 can pro		or normal election day operation by Pennsylvania procedures and/or the		
	or voter access for one time u		evice manufacturer. A TSx unit will be loaded with all precincts and		
			arties from the "Pennsylvania Certification Closed Primary Election."		
Test Equipment:			Poll 5000, 10 voter access cards, TSx units		
Special Procedura	l Requirements:	None			
Assumptions:		None			
Step			Description		
1000			•		
	From the Express Poll unit en	code one v	voter access card for each party and each precinct in the Closed Primary Election.		
	<i>Expected:</i> The voter access ca	rds can be	e programmed.		
	Actual:				
	Actual.				
1010		_			
	Insert the Democratic voter ac	cess card	for Precinct 1 into the TSx.		
	<i>Expected:</i> The TSx accepts the	ie voter ac	ccess card and displays the ballot style for Democratic party for Precinct 1.		
	Antonia				
	Actual:				
1020					
1020	Use the designated method to	advance t	the through the ballot. Observe the contests and candidates for Democratic party		
	for Precinct 1 ballot style are				
	for the effect to barlot style are	iispiayeu.			
	Expected: All contests and ca	ndidates a	are accurately displayed		
		indiduces u	ac accuracy displayed.		
	Actual:				
1030					
•	Use the designated method to	navigate to	to the first contest and select the first candidate.		
	Expected: The TSx navigates	to the first	t contest and the selection for the first candidate is input.		
	Actual:				
1040					
	_		the "Ballot Review." Observe the "Ballot Review" to see if the above selections		
	are indicated. Use the designation	ated metho	od to cast the voted selections.		

	<i>Expected:</i> The precinct tabulation device advances to the "Ballot Review" screen after review and ballot is cast successfully. <i>Actual:</i>
1050	
1050	Remove the ejected voter access card or use the designated method to remove the used voter access card. Reinsert the used voter access card.
	Expected: The TSx should give an indication that the voter access card has been used.
	Actual:
1060	
1000	Insert the Republican voter access card for Precinct 1 voter access card into the TSx.
	Expected: The TSx accepts the voter access card and displays the ballot style of Precinct 1.
	Actual:
1070	
1070	Select the first candidate in every "1 of 1" race, the first N in every "N of M" race, and "Yes" for every Referendum race.
	Expected: Every candidate can be input as described.
	Actual:
1080	Use the designated method to advance the "Ballot Review." Observe the "Ballot Review" to see if the above selections are indicated. Use the designated method to cast the voted selections.
	<i>Expected:</i> The precinct tabulation device advances to the "Ballot Review" screen after review and ballot is cast successfully.
	Actual:
1090	Repeat steps 1010- 1080 excluding step 1050 for each precinct.
	Expected: Repeat 1010 Repeat 1020 Repeat 1030 Repeat 1040 Repeat 1060 Repeat 1070 Repeat 1080

	Actual:
1100	Close the polls and print the closed polls report tape.
	<i>Expected:</i> The polls closed and a report is printed. <i>Actual:</i>
1110	Review the closed polls report to ensure all selections input above are recorded and reported correctly.
	<i>Expected:</i> The closed polls report presents the accumulated totals for the selections input above. <i>Actual:</i>
	ation of the Test Results: The intended selections input above are recorded, stored, and reported as input by or access cards are accepted and display the proper ballot style and cannot be reused.

Test Case Identifier: Cardwriter Functional Verification (General Election)			
			Express Poll 5000 card writing functionality must be able to program voter
			s card media with the proper keys to allow for ballot styles based on
			aphical subdivisions to properly be retrieved and presented to a voter in a
			al Election.
Test Objective: T	o determine if the card v	vriter	Test Configuration: Precinct tabulation device configured as described
	Express Poll 5000 can pro		for normal election day operation by Pennsylvania procedures and/or the
•	r voter access for one time u		device manufacturer. A TSx unit will be loaded with all precincts from the
			"Pennsylvania Certification General Election."
Test Equipment:		Expre	ss Poll 5000, 10 voter access cards, TSx units
Special Procedura	Requirements:	None	
Assumptions:		None	
Step			Description
1000			•
	From the Express Poll unit, er	ncode tw	vo voter access cards for each precinct in the General Election.
	_		
	Expected: The voter access ca	rds can	be programmed.
	Actual:		
1010			
1010	Insert the first Precinct 1 vote	r access	card into the TSx
	insert the first Freehet F vote	i access	
	<i>Expected</i> . The TSy accepts the	ie voter	access card and displays the ballot style of Precinct 1.
	Expected. The TSX accepts u	ie votei	access card and displays the bandt style of Freehet 1.
	Actual:		
1020			
1020	Use the designated method to	advana	ce the through the ballot. Observe the contests and candidates for Precinct 1 ballot
	style are displayed.	, advand	the unsugh the station. Observe the contests and candidates for Preemet P station
	Expected: All contests and ca	ndidate	s are accurately displayed.
	Actual:		
1030			
	Use the designated method to	navigat	e to the first contest and select the first candidate.
	_	-	
	Expected: The TSx navigates	to the fi	irst contest and the selection for the first candidate is input.
	Ĵ		
	Actual:		
1040			
	Use the designated method to	advanc	the "Ballot Review." Observe the "Ballot Review" to see if the above selections
	are indicated. Use the designation	ated met	thod to cast the voted selections.

	<i>Expected:</i> The precinct tabulation device advances to the "Ballot Review" screen after review and ballot is cast successfully. <i>Actual:</i>
10 50	
1050	Remove the ejected voter access card or use the designated method to remove the used voter access card. Reinsert the used voter access card.
	Expected: The TSx should give an indication that the voter access card has been used.
	Actual:
1060	
1000	Insert the second Precinct 1 voter access card into the TSx.
	Expected: The TSx accepts the voter access card and displays the ballot style of Precinct 1.
	Actual:
1070	
2010	Select the first candidate in every "1 of 1" race, the first N in every "N of M" race, and "Yes" for every Referendum race.
	<i>Expected:</i> Every candidate can be input as described.
	Actual:
1080	Use the designated method to advance the "Ballot Review." Observe the "Ballot Review" to see if the above selections are indicated. Use the designated method to cast the voted selections.
	<i>Expected:</i> The precinct tabulation device advances to the "Ballot Review" screen after review and ballot is cast successfully.
	Actual:
1090	Repeat steps 1010- 1080 excluding step 1050 for each precinct.
	Expected: Repeat 1010 Repeat 1020 Repeat 1030 Repeat 1040 Repeat 1060 Repeat 1070 Repeat 1080

	Actual:
1100	Close the polls and print the closed polls report tape.
	<i>Expected:</i> The polls closed and a report is printed. <i>Actual:</i>
1110	Review the closed polls report to ensure all selections input above are recorded and reported correctly.
	<i>Expected:</i> The closed polls report presents the accumulated totals for the selections input above. <i>Actual:</i>
	ation of the Test Results: The intended selections input above are recorded, stored, and reported as input by or access cards are accepted and display the proper ballot style and cannot be reused.

Test Case Identifie	er: Cardwriter Functional Ve	rification	(Closed Primary Election)		
			press Poll 5000 card writing functionality must be able to program voter		
			access card media with the proper keys to allow for ballot styles based on		
		geographical subdivisions and party affiliation to properly be retrieved and			
			ed to a voter in a Closed Primary Election.		
Test Objective: T	o determine if the card v		Cest Configuration: Precinct tabulation device configured as described		
functionality of the	Express Poll 5000 can pro		or normal election day operation by Pennsylvania procedures and/or the		
	or voter access for one time u		evice manufacturer. A TSx unit will be loaded with all precincts and		
			arties from the "Pennsylvania Certification Closed Primary Election."		
Test Equipment:			Poll 5000, 10 voter access cards, TSx units		
Special Procedura	l Requirements:	None			
Assumptions:		None			
Step			Description		
1000			•		
	From the Express Poll unit en	code one v	voter access card for each party and each precinct in the Closed Primary Election.		
	<i>Expected:</i> The voter access ca	rds can be	e programmed.		
	Actual:				
	Actual.				
1010		_			
	Insert the Democratic voter ac	cess card	for Precinct 1 into the TSx.		
	<i>Expected:</i> The TSx accepts the	ie voter ac	ccess card and displays the ballot style for Democratic party for Precinct 1.		
	Antonia				
	Actual:				
1020					
1020	Use the designated method to	advance t	the through the ballot. Observe the contests and candidates for Democratic party		
	for Precinct 1 ballot style are				
	for the effect to barlot style are	iispiayeu.			
	Expected: All contests and ca	ndidates a	are accurately displayed		
		indiduces u	ac accuracy displayed.		
	Actual:				
1030					
•	Use the designated method to	navigate to	to the first contest and select the first candidate.		
	Expected: The TSx navigates	to the first	t contest and the selection for the first candidate is input.		
	Actual:				
1040					
	_		the "Ballot Review." Observe the "Ballot Review" to see if the above selections		
	are indicated. Use the designation	ated metho	od to cast the voted selections.		

	<i>Expected:</i> The precinct tabulation device advances to the "Ballot Review" screen after review and ballot is cast successfully. <i>Actual:</i>
1050	
1050	Remove the ejected voter access card or use the designated method to remove the used voter access card. Reinsert the used voter access card.
	Expected: The TSx should give an indication that the voter access card has been used.
	Actual:
1060	
1000	Insert the Republican voter access card for Precinct 1 voter access card into the TSx.
	Expected: The TSx accepts the voter access card and displays the ballot style of Precinct 1.
	Actual:
1070	
1070	Select the first candidate in every "1 of 1" race, the first N in every "N of M" race, and "Yes" for every Referendum race.
	Expected: Every candidate can be input as described.
	Actual:
1080	Use the designated method to advance the "Ballot Review." Observe the "Ballot Review" to see if the above selections are indicated. Use the designated method to cast the voted selections.
	<i>Expected:</i> The precinct tabulation device advances to the "Ballot Review" screen after review and ballot is cast successfully.
	Actual:
1090	Repeat steps 1010- 1080 excluding step 1050 for each precinct.
	Expected: Repeat 1010 Repeat 1020 Repeat 1030 Repeat 1040 Repeat 1060 Repeat 1070 Repeat 1080

	Actual:
1100	Close the polls and print the closed polls report tape.
	<i>Expected:</i> The polls closed and a report is printed. <i>Actual:</i>
1110	Review the closed polls report to ensure all selections input above are recorded and reported correctly.
	<i>Expected:</i> The closed polls report presents the accumulated totals for the selections input above. <i>Actual:</i>
	ation of the Test Results: The intended selections input above are recorded, stored, and reported as input by r access cards are accepted and display the proper ballot style and cannot be reused.