COMMONWEALTH OF PENNSYLVANIA

AS RUN TEST PROTOCOL

FOR

RE-EXAMINATION OF

EXPRESSPOLL 5000 WITH EZROSTER V. 2.7.8 AND CARDWRITER 1.1.4

EXPRESSPOLL 5000 WITH EZROSTER V. 2.7.8 AND CARDWRITER 1.1.5

EXPRESSPOLL 5000 WITH EZROSTER V. 2.7.8 AND CARDWRITER 1.1.6

August 28, 2012

Harrisburg, Pennsylvania
**EXPRESSPOLL 5000 WITH EZROSTER V. 2.7.8 AND CARDWRITER 1.1.4**

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

| Functional Requirements: | The Express Poll 5000 card writing functionality must be able to program voter access card media with the proper keys to allow for ballot styles based on geographical subdivisions and party affiliation to properly be retrieved and presented to a voter in a Closed Primary Election |

**Test Objective:** To determine if the card writer functionality of the Express Poll 5000 can properly write smart cards for voter access for one time use.  

**Test Configuration:** Precinct tabulation device configured as described for normal election day operation by Pennsylvania procedures and/or the device manufacturer. A TSx unit will be loaded with all precincts and parties from the “Pennsylvania Certification Closed Primary Election.”

**Test Equipment:** Express Poll 5000, 10 voter access cards, TSx units

**Special Procedural Requirements:** None

**Assumptions:** None

<table>
<thead>
<tr>
<th>Step</th>
<th>Description</th>
</tr>
</thead>
</table>
| 1000 | From the Express Poll unit encode one voter access cards for each party and each precinct in the Closed Primary Election.  

*Expected:* The voter access cards can be programmed.  

*Actual:* The voter access cards were successfully programmed. |

| 1010 | Insert the Democratic voter access card for Precinct 1 into the TSx.  

*Expected:* The TSx accepts the voter access card and displays the ballot style for Democratic party for Precinct 1.  

*Actual:* The TSx accepted the voter access card and displayed the Democratic ballot for Precinct 1. |

| 1020 | Use the designated method to advance through the ballot. Observe the contests and candidates for Democratic party for Precinct 1 ballot style that are displayed  

*Expected:* All contests and candidates are accurately displayed.  

*Actual:* All contests and candidates were accurately displayed. |

| 1030 | Use the designated method to navigate to the first contest and select the first candidate.  

*Expected:* The TSx navigates to the first contest and the selection for the first candidate is input.  

*Actual:* The TSx navigated to the first contest and the selection for the first candidate was input. |

| 1040 | Use the designated method to advance to “Ballot Review.” Observe the “Ballot Review” to see if the above selections are indicated. Use the designated method to cast the voted selections. |
**Expected:** The precinct tabulation device advances to the “Ballot Review” screen. After review, the ballot is cast successfully.

**Actual:** The precinct tabulation device advanced to the “Ballot Review” screen. After review, the ballot was cast successfully.

| 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 and did not allow for use until reloaded.  

**Actual:** The TSx gave an indication that the voter access card had been used and did not allow for re-use.

| 1060 | Insert the Republican voter access card for Precinct 1 into the TSx.  

**Expected:** The TSx accepts the voter access card and displays the Republican ballot style of Precinct 1.  

**Actual:** The TSx accepted the voter access card and displayed the Republican ballot for Precinct 1.

| 1070 | Select the first candidate in every “1 of 1” race, the first N in every “N of M” race, and “Yes” for every Referendum race.  

**Expected:** Every candidate can be input as described.  

**Actual:** Candidates were input as described.

| 1080 | Use the designated method to advance to the “Ballot Review” screen. Observe the “Ballot Review” screen to see if the above selections are indicated. Use the designated method to cast the voted selections.  

**Expected:** The precinct tabulation device advances to the “Ballot Review” screen. After review, the ballot is cast successfully.  

**Actual:** The precinct tabulation device advanced to the “Ballot Review” screen. After review, the ballot was cast successfully.

| 1090 | Repeat steps 1010- 1080 excluding step 1050 for each precinct.  

**Expected:** Repeat 1010 _X_  
Repeat 1020 _X_  
Repeat 1030 _X_  
Repeat 1040 _X_  

Pennsylvania Department of State
<p>| | |</p>
<table>
<thead>
<tr>
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<tbody>
<tr>
<td><strong>Repeat 1060 <strong>X</strong></strong>&lt;br&gt;<strong>Repeat 1070 <strong>X</strong></strong>&lt;br&gt;<strong>Repeat 1080 <strong>X</strong></strong>&lt;br&gt;<strong>Actual:</strong> All steps were repeated and the expected results were observed.</td>
<td></td>
</tr>
<tr>
<td><strong>1080</strong></td>
<td>Close the polls and print the closed polls report tape. &lt;br&gt;<strong>Expected:</strong> The polls closed and a report is printed. &lt;br&gt;<strong>Actual:</strong> The polls were closed and the report was printed.</td>
</tr>
<tr>
<td><strong>1090</strong></td>
<td>Review the closed polls report to ensure all selections input above are recorded and reported correctly. &lt;br&gt;<strong>Expected:</strong> The closed polls report presents the accumulated totals for the selections input above. &lt;br&gt;<strong>Actual:</strong> The closed polls report presented the accumulated totals for the selections that were input above.</td>
</tr>
</tbody>
</table>

**Criteria for Evaluation of the Test Results:** The intended selections input above are recorded, stored, and reported as input by the tester. The voter access cards are accepted and display the proper ballot style and cannot be reused.
**EXPRESSPOLL 5000 WITH EZROSTER V. 2.7.8 AND CARDWRITER 1.1.5**

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

**Functional Requirements:** The Express Poll 5000 card writing functionality must be able to program voter access card media with the proper keys to allow for ballot styles based on geographical subdivisions to properly be retrieved and presented to a voter in a General Election.

**Test Objective:** To determine if the card writer functionality of the Express Poll 5000 can properly write smart cards for voter access for one time use.

**Test Configuration:** Precinct tabulation device configured as described for normal election day operation by Pennsylvania procedures and/or the device manufacturer. A TSx unit will be loaded with all precincts from the “Pennsylvania Certification General Election.”

**Test Equipment:** Express Poll 5000, 10 voter access cards, TSx units

**Special Procedural Requirements:** None

**Assumptions:** None

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<tr>
<th>Step</th>
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| 1000  | From the Express Poll unit encode two voter access cards for each precinct in the General Election.  
*Expected:* The voter access cards can be programmed.  
*Actual:* The voter access cards were programmed. |
| 1010  | Insert the first Precinct 1 voter access card into the TSx.  
*Expected:* The TSx accepts the voter access card and displays the ballot style of Precinct 1.  
*Actual:* The TSx accepted the voter access card and displayed the ballot style for Precinct 1. |
| 1020  | Use the designated method to advance through the ballot. Observe the contests and candidates for Precinct 1 ballot style that are displayed  
*Expected:* All contests and candidates are accurately displayed.  
*Actual:* All contests and candidates were accurately displayed. |
| 1030  | Use the designated method to navigate to the first contest and select the first candidate.  
*Expected:* The TSx navigates to the first contest and the selection for the first candidate is input.  
*Actual:* The TSx navigated to the first contest and the selection for the first candidate was input. |
<p>| 1040  | Use the designated method to advance to the “Ballot Review” screen. Observe the “Ballot Review” screen to see if the above selections are indicated. Use the designated method to cast the voted selections. |</p>
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<th>Actual</th>
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<td><strong>1050</strong></td>
<td>Remove the ejected voter access card or use the designated method to remove the used voter access card. Reinsert the used voter access card.</td>
<td>The TSx should give an indication that the voter access card has been used and did not allow for use until reloaded.</td>
<td>The TSx indicated that the voter access card had been used and prohibited re-use.</td>
</tr>
<tr>
<td><strong>1060</strong></td>
<td>Insert the second Precinct 1 voter access card into the TSx.</td>
<td>The TSx accepts the voter access card and displays the ballot style of Precinct 1.</td>
<td>The TSx accepted the voter access card and displayed the ballot style for Precinct 1.</td>
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<td><strong>1070</strong></td>
<td>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.</td>
<td>Every candidate can be input as described.</td>
<td>Candidates were input as described.</td>
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<td><strong>1080</strong></td>
<td>Use the designated method to advance to the “Ballot Review” screen. Observe the “Ballot Review” screen to see if the above selections are indicated. Use the designated method to cast the voted selections.</td>
<td>The precinct tabulation device advances to the “Ballot Review” screen. After review, the ballot is cast successfully.</td>
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| **1090** | Repeat steps 1010-1080 excluding step 1050 for each precinct. | Repeat 1010 ___X___  
Repeat 1020 ___X___  
Repeat 1030 ___X___  
Repeat 1040 ___X___ | |
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<th>Actual: All steps were repeated and the expected results were observed.</th>
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<td>1100</td>
<td>Close the polls and print the closed polls report tape.</td>
</tr>
<tr>
<td></td>
<td>Expected: The polls closed and a report is printed.</td>
</tr>
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<td>Actual: The polls were closed and a report was printed.</td>
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<td>1110</td>
<td>Review the closed polls report to ensure all selections input above are recorded and reported correctly.</td>
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<td>Expected: The closed polls report presents the accumulated totals for the selections input above.</td>
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<td>Actual: The closed polls report presented the accumulated totals for the selections input above.</td>
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| **1000** | From the Express Poll unit encode two voter access cards for each precinct in the General Election.  
*Expected:* The voter access cards can be programmed.  
*Actual:* The voter access cards were programmed. |
| **1010** | Insert the first Precinct 1 voter access card into the TSx.  
*Expected:* The TSx accepts the voter access card and displays the ballot style of Precinct 1.  
*Actual:* The TSx accepted the voter access card and displayed the ballot style for Precinct 1. |
| **1020** | Use the designated method to advance through the ballot. Observe the contests and candidates for Precinct 1 ballot style are displayed  
*Expected:* All contests and candidates are accurately displayed.  
*Actual:* All contests and candidates were accurately displayed. |
| **1030** | Use the designated method to navigate to the first contest and select the first candidate.  
*Expected:* The TSx navigates to the first contest and the selection for the first candidate is input.  
*Actual:* The TSx navigated to the first contest and the selection for the first candidate was input. |
| **1040** | Use the designated method to advance to the “Ballot Review” screen. Observe the “Ballot Review” screen to see if the above selections are indicated. Use the designated method to cast the voted selections. |
**Expected:** The precinct tabulation device advances to the “Ballot Review” screen. After review, the ballot is cast successfully.

**Actual:** The precinct tabulation device advanced to the “Ballot Review” screen. After review, the ballot was cast successfully.

| 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 and did not allow for use until reloaded.  
**Actual:** The TSx indicated that the voter access card had been used and prohibited re-use. |
|---|---|
| 1060 | Insert the second Precinct 1 voter access card into the TSx.  
**Expected:** The TSx accepts the voter access card and displays the ballot style of Precinct 1.  
**Actual:** The TSx accepted the voter access card and displayed the ballot style for Precinct 1. |
| 1070 | Select the first candidate in every “1 of 1” race, the first N in every “N of M” race, and “Yes” for every Referendum race.  
**Expected:** Every candidate can be input as described.  
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| 1090 | Repeat steps 1010- 1080 excluding step 1050 for each precinct.  
**Expected:** Repeat 1010 ___X___  
Repeat 1020 ___X___  
Repeat 1030 ___X___  
Repeat 1040 ___X___ |
| 1060 | Repeat 1060 ___X___  
|      | Repeat 1070 ___X___  
|      | Repeat 1080 ___X___  
|      | **Actual:** All steps were repeated and the expected results were observed. |

| 1100 | Close the polls and print the closed polls report tape.  
|      | **Expected:** The polls closed and a report is printed.  
|      | **Actual:** The polls were closed and a report was printed. |

| 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:** The closed polls report presented the accumulated totals for the selections that were input above. |

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