Beaufort Ballot Audit Report
Election: SC Senate 45 Special Democratic Primary
Audit Date: 10:53:05, Thu Sep 3, 2015

Prec Nber	Precinct Name	EL30A				Audit				Comments
		Total	Opt	iVo	Flash	iVo	Opt	Man	Delta	
0111	Burton 1B	116	0	116	0	116	0	0	0	
0112	Burton 1C	40	0	40	0	40	0	0	0	
0116	Burton 3	13	0	13	0	13	0	0	0	
0160	Dale Lobeco	133	0	133	0	133	0	0	0	
0161	Seabrook 1	24	0	24	0	24	0	0	0	
0162	Seabrook 2	89	0	89	0	89	0	0	0	
0163	Seabrook 3	78	0	78	0	78	0	0	0	
0170	Sheldon 1	74	0	74	0	74	0	0	0	
0171	Sheldon 2	136	0	136	0	136	0	0	0	
0179	Burton 1D	9	0	9	0	9	0	0	0	
0307	Bluffton 2C	36	0	36	0	36	0	0	0	
Precincts Total:		748	0	748	0	748	0	0	0	
0750	Absentee	218	125	93	0	93	125	0	0	
0800	Emergency	10	10	0	0	0	10	0	0	
0850	Failsafe	1	0	1	0	1	0	0	0	
0900	Provisional	1	1	0	0	0	1	0	0	
Virtual Precincts Total:		230	136	94	0	94	136	0	0	
Grand Total:		978	136	842	0	842	136	0	0	

NOTE: Any manual entries shown on this report are supported by the Manual Entry log (EL68).

Auditor's Comments:
        Total number of iVotronic ballots cast containg no votes: 4
        This audit is complete and has no exceptions.

EL30A iVo to EL155 to EL152 Cross Check and Cancelled Ballots.

EL30A Ivo Ballots	EL155 Ballots	EL152 Ballots
842	842	842
Delta from EL30A	0	0
	Delta from EL155	0
	Cast By Voter	842

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                                         Beaufort Ballot Audit Report
            | Cast By Poll Wkr |              0 |
            | Blank Cast by PW |              0 |
            +------------------+---------------+
            | Cancelled Ballots|             28 |
            +------------------+---------------+
            |      Wrong Ballot |             2 |
            |      Voter Left AB |            0 |   (AB = After ballot selected by poll worker.)
            |      Voter Left BB |            1 |   (BB = Before ballot selected by poll worker.)
            |      Voter Request |            1 |
            |    Printer Problem |            0 |
            |   Terminal Problem |            1 |
            |        Other Reason |           23 |
            +------------------+---------------+


Number of ADA audio enabled events in this election: 43
        Precinct Number and Name           Machine  Date        Time
        ----------------------------------------------------------------
        0112   Burton 1C                    5139671  08/15/2015  12:13:25
        0116   Burton 3                     5132112  08/19/2015  09:18:23
        0116   Burton 3                     5132229  08/19/2015  09:42:12
        0116   Burton 3                     5134804  08/19/2015  09:14:55
        0116   Burton 3                     5139562  08/15/2015  12:38:36
        0116   Burton 3                     5127271  08/28/2015  08:06:22
        0160   Dale Lobeco                  5138218  08/20/2015  09:00:44
        0160   Dale Lobeco                  5139558  08/15/2015  12:30:59
        0160   Dale Lobeco                  5134340  08/20/2015  08:56:57
        0160   Dale Lobeco                  5129906  08/20/2015  08:56:51
        0161   Seabrook 1                   5139211  08/15/2015  12:19:49
        0161   Seabrook 1                   5137767  08/20/2015  08:36:12
        0161   Seabrook 1                   5137999  08/20/2015  08:39:31
        0161   Seabrook 1                   5127780  08/20/2015  08:31:35
        0162   Seabrook 2                   5139392  08/15/2015  12:18:25
        0162   Seabrook 2                   5131715  08/20/2015  09:04:43
        0162   Seabrook 2                   5123673  08/20/2015  08:46:23
        0162   Seabrook 2                   5122627  08/20/2015  08:53:06
        0163   Seabrook 3                   5131766  08/20/2015  08:34:04
        0163   Seabrook 3                   5133695  08/20/2015  08:26:25
        0163   Seabrook 3                   5139602  08/15/2015  12:30:35
        0163   Seabrook 3                   5130888  08/20/2015  08:46:23
        0163   Seabrook 3                   5140301  08/20/2015  08:40:43
        0170   Sheldon 1                    5128892  08/15/2015  12:24:26
        0170   Sheldon 1                    5131157  08/20/2015  09:00:38
        0170   Sheldon 1                    5133262  08/20/2015  09:04:23
        0170   Sheldon 1                    5131925  08/20/2015  08:52:08
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                              Beaufort Ballot Audit Report
    0171   Sheldon 2                      5136926   08/18/2015 12:37:24
    0171   Sheldon 2                      5131951   08/18/2015 13:30:36
    0171   Sheldon 2                      5137790   08/18/2015 13:01:03
    0179   Burton 1D                      5138877   08/18/2015 13:23:17
    0179   Burton 1D                      5137930   08/18/2015 13:12:13
    0179   Burton 1D                      5136606   08/18/2015 12:17:47
    0179   Burton 1D                      5136344   08/18/2015 13:06:39
    0307   Bluffton 2C                    5131113   08/15/2015 12:44:38
    0307   Bluffton 2C                    5138530   08/19/2015 09:33:06
    0307   Bluffton 2C                    5129336   08/19/2015 08:44:56
    0307   Bluffton 2C                    5133933   08/19/2015 09:50:45
    0307   Bluffton 2C                    5132852   08/19/2015 09:05:57
    0750   Absentee                       5134606   07/31/2015 11:50:33
    0850   Failsafe                       5124060   07/31/2015 12:30:19
    UNKN   Unknown                        5121721   07/31/2015 11:54:34
    UNKN   Unknown                        5133684   08/15/2015 12:24:11
    ---------------------------------------------------------------
    Election Date: 09/01/2015
    In all but the Absentee Precicnt events reported before election
    day are due to testing. Machines reported with precinct unknown
    had ADA Audio Enabled Events but no ballots were cast on them.
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Note: The following machines(s) have audit records but no ballots were cast on them: 5121721, 5133684
       Because they do not have ballots cast, they cannot be matched to a precinct. This is not
       an issue as long as the EL30A Ivo Ballots, the EL155 Ballots and the EL152 Ballots match
       in the table immdiately above.

How to read this report.

This is the ballot level report. It compares the number of ballots cast in the tabulation report,
the EL30A with the number of ballots cast in the audit data.

The values read from the EL30A report are reported in four categories; Total, Optical (Opt),
iVotronic (iVo) and Flash. None of these values on each line are calculated but parsed from
the actual report. The total lines are the calculated sums of the individual precince line values.

The Opt totals are the total number of ballots cast on paper ballots that were scanned into the optical
scanner and transferred to the tabulation computer via memory stick or ZipDisk (depending on the type
of device, M100 or M650 used to scan the ballots.) Optical totals should exist only in some but not all
of the Virtual Precincts at the bottom of the table.

The iVo totals are the results gathered from the PEBs (Personal Electronic Ballot) which are used
to open and close an iVotronic voting machine and, after the polls have closed, gather the ballots

cast for transmission to the tabulation system.

The Flash totals are the totals that are read from the flash cards in the rare event that the ballots
cannot be copied from the machine to the PEB or from the PEB to the tabulating machine.

The values on the Audit side come from the iVotronic audit data that is read from the flash cards as
part of the audit process. That process combines the individual machine data into two master audit
files, the EL155 Vote image log and the EL152 iVotronic event log.
The EL155 contains a record of all the votes cast on a ballot. The vote images indicate the machine
Ocounting the number of asterisks in a precinct we get the number of ballots cast in that precinct. That
number should always match the number in the iVo column on the EL30A side of the report.

Optical ballots do not have electonically readable audit files. So if the audit data iVotronic total
does not match the EL30A Total value, the auditor is prompted to read the paper report from the optical
scanner and enter the total ballots cast into the auditing program.

If the sum of the audit iVotronic and Optical ballots cast still do not match the EL30A total value, then
the audit software reads the EL68 Manual Entry log for any changes made in that precinct to either the iVo
or Opt totals by the CEC staff. It displays any manual entries to the auditor for inclusion into the totals.
If accepted by the auditor these entries are automatically added to the Man column from the Manual Entry log.

Finally, the audit software calculates the Delta value which should be zero unless the sum of the iVo,
the Opt and the Man do not match the EL30A Total column. If the Delta is greater than zero then audit data
is missing. A comment will be placed on that line in the report indicating missing audit data. If the Delta
value is less than zero then there are more ballots in the audit data than there are in the tabulated data
and a comment will be placed on that line in the report.

Wherever possible, the audit system will attempt to indicate where the difference is by displaying the
iVotronic machine numbers and the number of ballots cast on that machine that exist in the audit data.
In the case of missing tabulated data, it might be possible to identify a machine that has the same number
of ballots cast as the delta value and that number and ballot count will be highlited with a < sign.
If there is a non zero Delta value there will be an entry by the auditor explaining the variance.

Finally, there is a EL30A iVo to EL155 to EL152 Cross Check and Cancelled Ballots table in the report
This table should indicate that the nubmer ballots cast in the EL30A match the numbers in the EL155 and
the EL152 report. Then there are some statistics pulled from the EL152 repor that indicate how many
ballots were cast by the voter and the number cast by the poll worker. Lastly the number of ballots that
were cancelled and the reason they were cancelled. It should be noted that the reason cancelled is chosen
from a pull down menu presented to the poll worker when a ballot is cancelled, there is no way to
validate the poll worker's choice.

Beaufort Vote Level Audit Report
Election: SC Senate 45 Special Democratic Primary
Audit Date: 10:53:32, Thu Sep 3, 2015

Precinct Number / Name Office	Candidate	Party	EL30A				Audit		Comments
			Total	Optical	iVo	Flash	iVo	Delta	
0111 Burton 1B									
State Senate District 45	Chauncey N Barnwell		1	0	1	0	1	0	
State Senate District 45	William Bowman Jr		1	0	1	0	1	0	
State Senate District 45	Sheree Darien		0	0	0	0			* No Audit Data expected or found
State Senate District 45	Kent D Fletcher		1	0	1	0	1	0	
State Senate District 45	Libbie Henry Green		2	0	2	0	2	0	
State Senate District 45	Kenneth F Hodges		92	0	92	0	92	0	
State Senate District 45	R Keith Horton		1	0	1	0	1	0	
State Senate District 45	Margie Bright Matthews		15	0	15	0	15	0	
State Senate District 45	Richmond Truesdale		0	0	0	0			* No Audit Data expected or found
State Senate District 45	John Edward Washington		1	0	1	0	1	0	
State Senate District 45	Korey Williams		1	0	1	0	1	0	
0112 Burton 1C									
State Senate District 45	Chauncey N Barnwell		0	0	0	0			* No Audit Data expected or found
State Senate District 45	William Bowman Jr		0	0	0	0			* No Audit Data expected or found
State Senate District 45	Sheree Darien		2	0	2	0	2	0	
State Senate District 45	Kent D Fletcher		1	0	1	0	1	0	
State Senate District 45	Libbie Henry Green		0	0	0	0			* No Audit Data expected or found
State Senate District 45	Kenneth F Hodges		29	0	29	0	29	0	
State Senate District 45	R Keith Horton		1	0	1	0	1	0	
State Senate District 45	Margie Bright Matthews		7	0	7	0	7	0	
State Senate District 45	Richmond Truesdale		0	0	0	0			* No Audit Data expected or found
State Senate District 45	John Edward Washington		0	0	0	0			* No Audit Data expected or found
State Senate District 45	Korey Williams		0	0	0	0			* No Audit Data expected or found
0116 Burton 3									
State Senate District 45	Chauncey N Barnwell		0	0	0	0			* No Audit Data expected or found
State Senate District 45	William Bowman Jr		0	0	0	0			* No Audit Data expected or found
State Senate District 45	Sheree Darien		0	0	0	0			* No Audit Data expected or found
State Senate District 45	Kent D Fletcher		0	0	0	0			* No Audit Data expected or found
State Senate District 45	Libbie Henry Green		0	0	0	0			* No Audit Data expected or found
State Senate District 45	Kenneth F Hodges		11	0	11	0	11	0	
State Senate District 45	R Keith Horton		0	0	0	0			* No Audit Data expected or found
State Senate District 45	Margie Bright Matthews		2	0	2	0	2	0	
State Senate District 45	Richmond Truesdale		0	0	0	0			* No Audit Data expected or found

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State Senate District 45          John Edward Washington         0      0      0        0 * No Audit Data expected or found
State Senate District 45          Korey Williams                 0      0      0        0 * No Audit Data expected or found

0160  Dale Lobeco
State Senate District 45          Chauncey N Barnwell            0      0      0        0 * No Audit Data expected or found
State Senate District 45          William Bowman Jr              1      0      1        0        1        0
State Senate District 45          Sheree Darien                  0      0      0        0 * No Audit Data expected or found
State Senate District 45          Kent D Fletcher                0      0      0        0 * No Audit Data expected or found
State Senate District 45          Libbie Henry Green             1      0      1        0        1        0
State Senate District 45          Kenneth F Hodges             102      0    102        0      102        0
State Senate District 45          R Keith Horton                 2      0      2        0        2        0
State Senate District 45          Margie Bright Matthews        24      0     24        0       24        0
State Senate District 45          Richmond Truesdale             0      0      0        0 * No Audit Data expected or found
State Senate District 45          John Edward Washington         1      0      1        0        1        0
State Senate District 45          Korey Williams                 1      0      1        0        1        0

0161  Seabrook 1
State Senate District 45          Chauncey N Barnwell            0      0      0        0 * No Audit Data expected or found
State Senate District 45          William Bowman Jr              0      0      0        0 * No Audit Data expected or found
State Senate District 45          Sheree Darien                  0      0      0        0 * No Audit Data expected or found
State Senate District 45          Kent D Fletcher                0      0      0        0 * No Audit Data expected or found
State Senate District 45          Libbie Henry Green             0      0      0        0 * No Audit Data expected or found
State Senate District 45          Kenneth F Hodges              18      0     18        0       18        0
State Senate District 45          R Keith Horton                 0      0      0        0 * No Audit Data expected or found
State Senate District 45          Margie Bright Matthews         5      0      5        0        5        0
State Senate District 45          Richmond Truesdale             1      0      1        0        1        0
State Senate District 45          John Edward Washington         0      0      0        0 * No Audit Data expected or found
State Senate District 45          Korey Williams                 0      0      0        0 * No Audit Data expected or found

0162  Seabrook 2
State Senate District 45          Chauncey N Barnwell            0      0      0        0 * No Audit Data expected or found
State Senate District 45          William Bowman Jr              0      0      0        0 * No Audit Data expected or found
State Senate District 45          Sheree Darien                  0      0      0        0 * No Audit Data expected or found
State Senate District 45          Kent D Fletcher                1      0      1        0        1        0
State Senate District 45          Libbie Henry Green             0      0      0        0 * No Audit Data expected or found
State Senate District 45          Kenneth F Hodges              66      0     66        0       66        0
State Senate District 45          R Keith Horton                 2      0      2        0        2        0
State Senate District 45          Margie Bright Matthews        20      0     20        0       20        0
State Senate District 45          Richmond Truesdale             0      0      0        0 * No Audit Data expected or found
State Senate District 45          John Edward Washington         0      0      0        0 * No Audit Data expected or found
State Senate District 45          Korey Williams                 0      0      0        0 * No Audit Data expected or found

0163  Seabrook 3
State Senate District 45          Chauncey N Barnwell            1      0      1        0        1        0
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State Senate District 45	William Bowman Jr	1	0	1	0	1	0
State Senate District 45	Sheree Darien	0	0	0	0 * No Audit Data expected or found		
State Senate District 45	Kent D Fletcher	2	0	2	0	2	0
State Senate District 45	Libbie Henry Green	0	0	0	0 * No Audit Data expected or found		
State Senate District 45	Kenneth F Hodges	64	0	64	0	64	0
State Senate District 45	R Keith Horton	1	0	1	0	1	0
State Senate District 45	Margie Bright Matthews	8	0	8	0	8	0
State Senate District 45	Richmond Truesdale	1	0	1	0	1	0
State Senate District 45	John Edward Washington	0	0	0	0 * No Audit Data expected or found		
State Senate District 45	Korey Williams	0	0	0	0 * No Audit Data expected or found		

0170   Sheldon 1

State Senate District 45	Chauncey N Barnwell	0	0	0	0 * No Audit Data expected or found		
State Senate District 45	William Bowman Jr	2	0	2	0	2	0
State Senate District 45	Sheree Darien	0	0	0	0 * No Audit Data expected or found		
State Senate District 45	Kent D Fletcher	2	0	2	0	2	0
State Senate District 45	Libbie Henry Green	0	0	0	0 * No Audit Data expected or found		
State Senate District 45	Kenneth F Hodges	46	0	46	0	46	0
State Senate District 45	R Keith Horton	2	0	2	0	2	0
State Senate District 45	Margie Bright Matthews	20	0	20	0	20	0
State Senate District 45	Richmond Truesdale	0	0	0	0 * No Audit Data expected or found		
State Senate District 45	John Edward Washington	0	0	0	0 * No Audit Data expected or found		
State Senate District 45	Korey Williams	2	0	2	0	2	0

0171   Sheldon 2

State Senate District 45	Chauncey N Barnwell	0	0	0	0 * No Audit Data expected or found		
State Senate District 45	William Bowman Jr	1	0	1	0	1	0
State Senate District 45	Sheree Darien	1	0	1	0	1	0
State Senate District 45	Kent D Fletcher	0	0	0	0 * No Audit Data expected or found		
State Senate District 45	Libbie Henry Green	1	0	1	0	1	0
State Senate District 45	Kenneth F Hodges	102	0	102	0	102	0
State Senate District 45	R Keith Horton	4	0	4	0	4	0
State Senate District 45	Margie Bright Matthews	24	0	24	0	24	0
State Senate District 45	Richmond Truesdale	1	0	1	0	1	0
State Senate District 45	John Edward Washington	1	0	1	0	1	0
State Senate District 45	Korey Williams	0	0	0	0 * No Audit Data expected or found		

0179   Burton 1D

State Senate District 45	Chauncey N Barnwell	0	0	0	0 * No Audit Data expected or found		
State Senate District 45	William Bowman Jr	0	0	0	0 * No Audit Data expected or found		
State Senate District 45	Sheree Darien	1	0	1	0	1	0
State Senate District 45	Kent D Fletcher	0	0	0	0 * No Audit Data expected or found		
State Senate District 45	Libbie Henry Green	0	0	0	0 * No Audit Data expected or found		
State Senate District 45	Kenneth F Hodges	6	0	6	0	6	0

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State Senate District 45          R Keith Horton              0      0      0      0 * No Audit Data expected or found
State Senate District 45          Margie Bright Matthews      2      0      2      0        2        0
State Senate District 45          Richmond Truesdale          0      0      0      0 * No Audit Data expected or found
State Senate District 45          John Edward Washington      0      0      0      0 * No Audit Data expected or found
State Senate District 45          Korey Williams              0      0      0      0 * No Audit Data expected or found

0307  Bluffton 2C
State Senate District 45          Chauncey N Barnwell         1      0      1      0        1        0
State Senate District 45          William Bowman Jr           0      0      0      0 * No Audit Data expected or found
State Senate District 45          Sheree Darien               3      0      3      0        3        0
State Senate District 45          Kent D Fletcher            21      0     21      0       21        0
State Senate District 45          Libbie Henry Green          0      0      0      0 * No Audit Data expected or found
State Senate District 45          Kenneth F Hodges            4      0      4      0        4        0
State Senate District 45          R Keith Horton              1      0      1      0        1        0
State Senate District 45          Margie Bright Matthews      6      0      6      0        6        0
State Senate District 45          Richmond Truesdale          0      0      0      0 * No Audit Data expected or found
State Senate District 45          John Edward Washington      0      0      0      0 * No Audit Data expected or found
State Senate District 45          Korey Williams              0      0      0      0 * No Audit Data expected or found

0750  Absentee
State Senate District 45          Chauncey N Barnwell         0      0      0      0 * No Audit Data expected or found
State Senate District 45          William Bowman Jr           0      0      0      0 * No Audit Data expected or found
State Senate District 45          Sheree Darien               0      0      0      0 * No Audit Data expected or found
State Senate District 45          Kent D Fletcher             1      1      0      0 * All votes cast for this candidate
                                                                                    * in this precicnt are optical.
                                                                                    * No Audit Data for optical.

State Senate District 45          Libbie Henry Green          0      0      0      0 * No Audit Data expected or found
State Senate District 45          Kenneth F Hodges          202    121     81      0       81        0
State Senate District 45          R Keith Horton              0      0      0      0 * No Audit Data expected or found
State Senate District 45          Margie Bright Matthews     14      3     11      0       11        0
State Senate District 45          Richmond Truesdale          0      0      0      0 * No Audit Data expected or found
State Senate District 45          John Edward Washington      0      0      0      0 * No Audit Data expected or found
State Senate District 45          Korey Williams              0      0      0      0 * No Audit Data expected or found

0800  Emergency
State Senate District 45          Chauncey N Barnwell         0      0      0      0 * No Audit Data expected or found
State Senate District 45          William Bowman Jr           0      0      0      0 * No Audit Data expected or found
State Senate District 45          Sheree Darien               0      0      0      0 * No Audit Data expected or found
State Senate District 45          Kent D Fletcher             0      0      0      0 * No Audit Data expected or found
State Senate District 45          Libbie Henry Green          0      0      0      0 * No Audit Data expected or found
State Senate District 45          Kenneth F Hodges           10     10      0      0 * All votes cast for this candidate
                                                                                    * in this precicnt are optical.
                                                                                    * No Audit Data for optical.
```

State Senate District 45	R Keith Horton	0	0	0	0	* No Audit Data expected or found
State Senate District 45	Margie Bright Matthews	0	0	0	0	* No Audit Data expected or found
State Senate District 45	Richmond Truesdale	0	0	0	0	* No Audit Data expected or found
State Senate District 45	John Edward Washington	0	0	0	0	* No Audit Data expected or found
State Senate District 45	Korey Williams	0	0	0	0	* No Audit Data expected or found

0850 Failsafe

State Senate District 45	Chauncey N Barnwell	0	0	0	0	* No Audit Data expected or found
State Senate District 45	William Bowman Jr	0	0	0	0	* No Audit Data expected or found
State Senate District 45	Sheree Darien	0	0	0	0	* No Audit Data expected or found
State Senate District 45	Kent D Fletcher	0	0	0	0	* No Audit Data expected or found
State Senate District 45	Libbie Henry Green	0	0	0	0	* No Audit Data expected or found
State Senate District 45	Kenneth F Hodges	1	0	1	0	1	0
State Senate District 45	R Keith Horton	0	0	0	0	* No Audit Data expected or found
State Senate District 45	Margie Bright Matthews	0	0	0	0	* No Audit Data expected or found
State Senate District 45	Richmond Truesdale	0	0	0	0	* No Audit Data expected or found
State Senate District 45	John Edward Washington	0	0	0	0	* No Audit Data expected or found
State Senate District 45	Korey Williams	0	0	0	0	* No Audit Data expected or found

0900 Provisional

State Senate District 45	Chauncey N Barnwell	0	0	0	0	* No Audit Data expected or found
State Senate District 45	William Bowman Jr	0	0	0	0	* No Audit Data expected or found
State Senate District 45	Sheree Darien	0	0	0	0	* No Audit Data expected or found
State Senate District 45	Kent D Fletcher	0	0	0	0	* No Audit Data expected or found
State Senate District 45	Libbie Henry Green	0	0	0	0	* No Audit Data expected or found
State Senate District 45	Kenneth F Hodges	1	1	0	0	* All votes cast for this candidate
						* in this precicnt are optical.
						* No Audit Data for optical.
State Senate District 45	R Keith Horton	0	0	0	0	* No Audit Data expected or found
State Senate District 45	Margie Bright Matthews	0	0	0	0	* No Audit Data expected or found
State Senate District 45	Richmond Truesdale	0	0	0	0	* No Audit Data expected or found
State Senate District 45	John Edward Washington	0	0	0	0	* No Audit Data expected or found
State Senate District 45	Korey Williams	0	0	0	0	* No Audit Data expected or found

There was no unmatched audit data

How to read this report.

This is the vote level report. It compares the number of votes cast for each candidate in the tabulation report with the number of ballots cast in the audit data for each candidates in each precinct.

The tabulated values as read from the EL30A report are reported in four categories; Total, Optical (Opt),
iVotronic (iVo) and Flash. None of these values on each line are calculated but parsed from
the actual report. In the EL30A report all Write-in votes are added together and reported as one
candidate name - Write-in. The EL30A does not report individual Write-in candidates.

The Opt totals are the total number of votes cast on paper ballots that were scanned into the optical
scanner and transferred to the tabulation computer via memory stick or ZipDisk (depending on the type
of device, M100 or M650 used to scan the ballots.) Optical totals should exist only in some but not all
of the Virtual Precincts at the bottom of the table.

The iVo totals are the results gathered from the PEBs (Personal Electronic Ballot) which are used
to open and close an iVotronic voting machine and, after the polls have closed, gather the ballots
cast for transmission to the tabulation system.

The Flash totals are the totals that are read from the flash cards in the rare event that the ballots
cannot be copied from the machine to the PEB or from the PEB to the tabulating machine.

The values on the Audit side come from the iVotronic audit data that is read from the flash cards as
part of the audit process. That process combines the individual machine data into a master audit
file, the EL155 Vote image log.

The EL155 contains a record of all the votes cast on a ballot. The vote images indicate the machine
Ocounting the number of times a candidate name for a contest appears in a precint we get the number of
votes cast in that precinct for that candidates. That number should always match the number of votes cast
for that candidate in that contest in the iVo column on the EL30A side of the report.

Optical ballots do not have electonically readable audit files. So if the audit data iVotronic total votes
does not match the EL30A iVo value one of two things will occur. The first is if the iVotronic tabulated
is zero and the Total tabulated votes match the tabulated Optical votes the following comment is made in
the Audit side of the report; All votes cast for this candidate in this precinct are optical No Audit
Data for optical, or secondly, if the iVotronic total is not zero, a notation indicating which data Audit data
In the event a candidate or the combined Write-in candidates did not receive any votes in a precinct
the EL30A will report a zero vote count. If there are no votes for this candidate in a precinct in the audit data,
the following comment will be placed into the audit report by the auditing software; No Audit Data expected or
found.

Finaly the audit software will search the audit data for any votes that were not found on the EL30A report.
If it finds some, it will report those vote totals by contest, candidate name and precinct. if it does not
find any unmatched audit data it will report; There was no unmatched audit data

Beaufort EL30A45A Comparison Report
Election: SC Senate 45 Special Democratic Primary
Audit Date: 10:53:54, Thu Sep 3, 2015

```
+--------------EL30A-------------+----------------EL45A----------------+
Office                           Candidate              Party |  Tot    Opt    iVo   Flash |   Tot    Opt    iVo   Flash
Delta |
--------------------------------------------------+----------------------------+----------------------------
---+
```

Office Delta	Candidate	Party	Tot	Opt	iVo	Flash	Tot	Opt	iVo	Flash
State Senate District 45 0	Chauncey N Barnwell		3	0	3	0	3	0	3	0
State Senate District 45 0	William Bowman Jr		6	0	6	0	6	0	6	0
State Senate District 45 0	Sheree Darien		7	0	7	0	7	0	7	0
State Senate District 45 0	Kent D Fletcher		29	1	28	0	29	1	28	0
State Senate District 45 0	Libbie Henry Green		4	0	4	0	4	0	4	0
State Senate District 45 0	Kenneth F Hodges		754	132	622	0	754	132	622	0
State Senate District 45 0	R Keith Horton		14	0	14	0	14	0	14	0
State Senate District 45 0	Margie Bright Matthews		147	3	144	0	147	3	144	0
State Senate District 45 0	Richmond Truesdale		3	0	3	0	3	0	3	0
State Senate District 45 0	John Edward Washington		3	0	3	0	3	0	3	0
State Senate District 45 0	Korey Williams		4	0	4	0	4	0	4	0

How to read this report.

This is EL30A EL45A Crosscheck Report. It sums each candidates vote totals in each precinct in
the EL30A Precinct Detail Report and compares it to the EL45A Election Summary Report that
contains the tabulated total for each candidate in the county.

The values read from the EL30A report are reported in four categories; Total, Optical (Opt),
iVotronic (iVo) and Flash. None of these values on each line are calculated but parsed from
the actual report. The total lines are the calculated sums of the individual precince line values.

The Opt totals are the total number of votes cast on paper ballots that were scanned into the optical
scanner and transferred to the tabulation computer via memory stick or ZipDisk (depending on the type

of device, M100 or M650 used to scan the ballots.) Optical totals should exist only in some but not all
of the Virtual Precincts at the bottom of the table.

The iVo totals are the results gathered from the PEBs (Personal Electronic Ballot) which are used
to open and close an iVotronic voting machine and, after the polls have closed, gather the ballots
cast for transmission to the tabulation system.

The Flash totals are the totals that are read from the flash cards in the rare event that the ballots
cannot be copied from the machine to the PEB or from the PEB to the tabulating machine.

The values read from the EL45A report are reported in same four categories; Total, Optical (Opt),
iVotronic (iVo) and Flash as the EL30A. Like the EL30A they are parsed from the actual EL45A report.
The summary candidate totals are compared against the calculated sums for each candidate from, the EL30A
report. Each of the values in each line on the EL30A side must match the same value on the EL45A side
and the Delta value must be zero.

Beaufort PEB Exceptions Report
Election: SC Senate 45 Special Democratic Primary
Election date: 09/01/2015
Audit Date: 10:53:05, Thu Sep 3, 2015

iVo #	Op PEB	Open Time	Cl PEB	Close Time	Exception Type	Precinct - Ballots Cast
5121721	157077	08/10/2015 09:55:25	157077	09/01/2015 19:02:37	>>Open Date<<	>>>No Ballots<<<
5121721	157077	08/10/2015 09:55:25	157077	09/01/2015 19:02:37	Open Time	>>>No Ballots<<<
5124060	218183	08/10/2015 08:29:24	218183	09/01/2015 19:09:31	>>Open Date<<	Absentee - 61
						Failsafe - 1
5124060	218183	08/10/2015 08:29:24	218183	09/01/2015 19:09:31	Open Time	Absentee - 61
						Failsafe - 1
5134606	157077	08/10/2015 09:53:37	157077	09/01/2015 19:03:58	>>Open Date<<	Absentee - 2
5134606	157077	08/10/2015 09:53:37	157077	09/01/2015 19:03:58	Open Time	Absentee - 2
5138871	218183	08/10/2015 08:27:29	218183	09/01/2015 19:13:15	>>Open Date<<	Absentee - 30
5138871	218183	08/10/2015 08:27:29	218183	09/01/2015 19:13:15	Open Time	Absentee - 30
5139211	156096	09/01/2015 07:05:30	156096	09/01/2015 19:09:35	Open Time	Seabrook 1 - 5

The following machines(s) have audit records but no ballots were cast on them: 5121721, 5133684
Because they do not have ballots cast, they cannot be matched to a precinct.

How to read this report.

This is the PEB Exceptions Report. It checks for the following conditions in the iVotronic Event log;

  1: A machine that was opened and closed by different PEBs
  2: A Machine that was not opened on Election Date - could be either an absentee or test machine
  3: A Machine that was not closed on Election Date - could have had problem closing
  4: A Machine that was not opened by 7 am - note most Absentee machines will show up here
  5: A Machine that was closed before 7pm - polls close at 7 PM
  6: A Machine that was not closed ever.
  7: A machine that has no ballots cast on it.

Each of the events above detected are reported on a separate line, each line contains the following information:
iVotronic machine number,Opening PEB Number, Open Time, Closing PEB Number, Closing Time, the Exception Type and
the Precinct and the Ballots Cast on that machine.

Absentee and Failsafe precint machines are opened during the middle of the day several days before the election date
of 09/01/2015. So it is normal for these machines to appear on this report with Open Date and Open Time exceptions.

Beaufort PEB Use Report
Election: SC Senate 45 Special Democratic Primary
Audit Date: 10:53:05, Thu Sep 3, 2015

Precinct	PEBs Used		Comments
Burton 1B	156491		
Burton 1C	157460		
Burton 3	156491		
Dale Lobeco	157259		
Seabrook 1	156096		
Seabrook 2	156229		
Seabrook 3	157378		
Sheldon 1	155990		
Sheldon 2	157038		
Burton 1D	157460		
Bluffton 2C	218222		
Absentee	218183	157077	WARNING: 2 PEBs used to open/close machines.
Failsafe	218183		

13 precincts processed

How to read this report.

This is the PEB Used report. It lists the precints found in the Audit data and lists all
the PEBs that were used by the poll workers to open and close the iVotronic machines in that.
precinct.

If more than one PEB is used to open and close all the iVotronic machines in a precinct,
then the County Election Commission must read ALL the PEBs used in that precinct to
assure that they have collected all the ballots from that precinct. A county whose report shows
a precinct that has machines open or closed by more than one PEB should double check the Ballot
Audit Report against the iVotronic paper tapes and the Poll Book to make sure that all the
ballots have been collected and tabulated.

Audit File Descriptions

The audit file package for each election contains six files that are created by the Election Management System, Unity, which is used for elections in South Carolina. These files are used by the audit process created by the South Carolina Election Commission. Each of these text files can be read by any text editor.

The six files are the; EL45A Election Report, EL30A Precinct Report, EL155 Vote Image Log, EL152 Event Log, EL68A System Log and EL68 Manual Entry Log.

EL45A Election Report

The EL45A Election Report is the summary report and shows the grand totals for each contest in the election for the entire county.

Report Header

First line	Indicates the report is a summary, the county, and status of results (unofficial or official)
Second line	Name of election
Third line	Date of election
Fourth line	Date and time the report was created, name of the report and page number
Fifth line	Column titles

The Optical Scan column contains the votes that were cast on paper ballots, the iVotronic column contains the votes that were cast on voting machines, and Flash Data column contains the votes that had to be recovered from the audit data contained on the Flash Cards. This last column will normally be empty as the need to use flash data to count the votes occurs only in very rare situations.

Audit File Descriptions

```
SUMMARY REPT-GROUP DETAIL                        Richland County                            Official Results
                                                 Municipal/Referendum Election
                                                 November 05, 2013
Run Date:11/12/13 10:16 AM                                                                  Report EL45A    Page 001
                                       TOTAL VOTES    %    Optical Scan    iVotronic    Flash Data
```

The next section is the election summary...

```
 PRECINCTS COUNTED (OF 130).  .   .   .   .       128   98.46
 REGISTERED VOTERS - TOTAL .   .   .   .   .   247,171
 BALLOTS CAST - TOTAL.  .   .   .   .   .   .    30,787                610         30,177            0
 VOTER TURNOUT - TOTAL  .   .   .   .   .   .             12.46
```

And the body of the report contains the county wide results of the election...

```
Mayor of Columbia
Vote for up to  1
 Moe Baddourah .  .   .   .   .   .   .   .   .    5,594   34.49          184          5,410            0
 Steve Benjamin.  .   .   .   .   .   .   .   .   10,402   64.13          187         10,215            0
 Larry A Sypolt.  .   .   .   .   .   .   .   .      167    1.03           15            152            0
 Write-In.  .   .   .   .   .   .   .   .   .   .       57     .35            1             56            0
           Total .  .   .   .   .   .   .   .   .   16,220                387         15,833            0

Columbia City Council At Large
Vote for up to  1
 Tommy Burkett .  .   .   .   .   .   .   .   .    5,400   34.73          168          5,232            0
 Tameika Isaac Devine.  .   .   .   .   .   .   10,068   64.75          207          9,861            0
 Write-In.  .   .   .   .   .   .   .   .   .   .       81     .52            3             78            0
           Total .  .   .   .   .   .   .   .   .   15,549                378         15,171            0


Columbia City Council Dist. 1
Vote for up to  1
 Sam Davis  .   .   .   .   .   .   .   .   .    2,431   69.80           41          2,390            0
 Bruce A Trezevant.  .   .   .   .   .   .   .    1,041   29.89           28          1,013            0
 Write-In.  .   .   .   .   .   .   .   .   .   .       11     .32            0             11            0
           Total .  .   .   .   .   .   .   .   .    3,483                 69          3,414            0


Columbia City Council Dist. 4
Vote for up to  1
```

```
Leona K Plaugh.  .   .   .   .   .   .   .   .      2,692    68.48              80           2,612              0
Todd Walter. .   .   .   .   .   .   .   .   .      1,226    31.19              30           1,196              0
Write-In. .   .   .   .   .   .   .   .   .   .         13      .33               0              13              0
        Total .   .   .   .   .   .   .   .   .      3,931                      110           3,821              0
```

The EL30A Election Report

The EL30A Election Report is the precinct report. It is similar to the EL45A report but it shows the totals in each precinct for each contest that was included in that precinct. These contests can vary from precinct to precinct depending on the location of the district lines in the county. It is possible that a precinct may include two or more seats in a contest but each voter in that precinct can vote for a candidate for only one district.

Report Header

First line	Indicates the report is a summary, the county, and status of results (unofficial or official)
Second line	Name of election
Third line	Date of election
Fourth line	Date and time the report was created, name of the report and page number
Fifth line	Column titles

The Optical Scan column contains the votes that were cast on paper ballots, the iVotronic column contains the votes that were cast on voting machines, and Flash Data column contains the votes that had to be recovered from the audit data contained on the Flash Cards. This last column will normally be empty as the need to use flash data to count the votes occurs only in very rare situations.

Audit File Descriptions

SOUTH CAROLINA ELECTION COMMISSION

```
PREC REPORT-GROUP DETAIL                    Richland County                        Unofficial Results
                                            Municipal/Referendum Election
                                            November 05, 2013
Run Date:11/12/13 10:16 AM                                                         Report EL30A Page 0101-01

0101 Ward 1
                                    TOTAL VOTES      %   Optical Scan     iVotronic    Flash Data
```

The next section is the precinct summary…

```
 REGISTERED VOTERS - TOTAL .  .  .  .  .  .  .   1,852
 BALLOTS CAST - TOTAL.  .  .  .  .  .  .  .  .     231                  0            231            0
 VOTER TURNOUT - TOTAL .  .  .  .  .  .  .  .           12.47
```

And the body of the report contains the precinct wide results of the election…

```
Mayor of Columbia
Vote for up to  1
 Moe Baddourah .  .  .  .  .  .  .  .  .  .  .      71   31.28          0             71            0
 Steve Benjamin.  .  .  .  .  .  .  .  .  .  .     152   66.96          0            152            0
 Larry A Sypolt.  .  .  .  .  .  .  .  .  .  .       0                  0              0            0
 Write-In.  .  .  .  .  .  .  .  .  .  .  .  .       4    1.76          0              4            0
           Total .  .  .  .  .  .  .  .  .  .     227                  0            227            0


Columbia City Council At Large
Vote for up to  1
 Tommy Burkett .  .  .  .  .  .  .  .  .  .  .      73   33.18          0             73            0
 Tameika Isaac Devine.  .  .  .  .  .  .  .  .     144   65.45          0            144            0
 Write-In.  .  .  .  .  .  .  .  .  .  .  .  .       3    1.36          0              3            0
           Total .  .  .  .  .  .  .  .  .  .     220                  0            220            0


COUNTY REFERENDUM
Vote for up to  1
 Yes, in favor of the question.  .  .  .  .      156   68.72          0            156            0
 No, opposed to the question  .  .  .  .  .       71   31.28          0             71            0
           Total .  .  .  .  .  .  .  .  .  .     227                  0            227            0
```

Audit File Descriptions

Followed by the next precinct...

```
PREC REPORT-GROUP DETAIL                    Richland County                          Unofficial Results
                                            Municipal/Referendum Election
                                            November 05, 2013
Run Date:11/12/13 10:16 AM                                                           Report EL30A Page 0102-01

0102 Ward 2
                                     TOTAL VOTES       %   Optical Scan      iVotronic      Flash Data
  REGISTERED VOTERS - TOTAL .  .  .  .  .  .     943
  BALLOTS CAST - TOTAL.  .  .  .  .  .  .  .     111                    0          111               0
  VOTER TURNOUT - TOTAL .  .  .  .  .  .  .            11.77


Mayor of Columbia
Vote for up to  1
  Moe Baddourah .  .  .  .  .  .  .  .  .  .       9    8.18           0            9               0
  Steve Benjamin.  .  .  .  .  .  .  .  .  .      98   89.09           0           98               0
  Larry A Sypolt.  .  .  .  .  .  .  .  .  .       2    1.82           0            2               0
  Write-In.  .  .  .  .  .  .  .  .  .  .  .       1     .91           0            1               0
        Total .  .  .  .  .  .  .  .  .  .      110                    0          110               0


Columbia City Council At Large
Vote for up to  1
  Tommy Burkett .  .  .  .  .  .  .  .  .  .      17   15.89           0           17               0
  Tameika Isaac Devine.  .  .  .  .  .  .  .      88   82.24           0           88               0
  Write-In.  .  .  .  .  .  .  .  .  .  .  .       2    1.87           0            2               0
        Total .  .  .  .  .  .  .  .  .  .      107                    0          107               0


COUNTY REFERENDUM
Vote for up to  1
  Yes, in favor of the question.  .  .  .  .      71   72.45           0           71               0
  No, opposed to the question  .  .  .  .  .      27   27.55           0           27               0
        Total .  .  .  .  .  .  .  .  .  .       98                    0           98               0
```

Each precinct is reported separately.

Audit File Descriptions

The last precincts in the election contain the "Virtual Precincts": Absentee, Emergency, Failsafe, Provisional and Failsafe / Provisional. When for some reason a voter cannot cast his or her ballot on a voting machine in the precinct to which a voter is assigned, that vote is cast in one of these precincts. Examples of reasons a vote must be cast in a virtual include absentee voting and cases when a voter's right to vote has been challenged in their assigned precinct.

```
                                    Municipal/Referendum Election
                                    November 05, 2013
Run Date:11/12/13 10:16 AM                                                 Report EL30A Page 0750-01

0750 Absentee
                            TOTAL VOTES      %    Optical Scan     iVotronic    Flash Data
  REGISTERED VOTERS - TOTAL . . . . . . .       0
  BALLOTS CAST - TOTAL. . . . . . . .       2,449               586          1,863             0


Mayor of Columbia
Vote for up to  1
  Moe Baddourah . . . . . . . . . .        396   31.81          176            220             0
  Steve Benjamin. . . . . . . . . .        823   66.10          178            645             0
  Larry A Sypolt. . . . . . . . . .         25    2.01           15             10             0
  Write-In. . . . . . . . . . . . .          1     .08            1              0             0
           Total . . . . . . . . . .      1,245                 370            875             0


Columbia City Council At Large
Vote for up to  1
  Tommy Burkett . . . . . . . . . .        391   32.86          159            232             0
  Tameika Isaac Devine. . . . . . .        794   66.72          201            593             0
  Write-In. . . . . . . . . . . . .          5     .42            2              3             0
           Total . . . . . . . . . .      1,190                 362            828             0


Columbia City Council Dist. 1
Vote for up to  1
  Sam Davis . . . . . . . . . . . .        175   64.34           41            134             0
  Bruce A Trezevant. . . . . . . .          95   34.93           28             67             0
  Write-In. . . . . . . . . . . . .          2     .74            0              2             0
           Total . . . . . . . . . .        272                  69            203             0


Columbia City Council Dist. 4
Vote for up to  1
  Leona K Plaugh. . . . . . . . . .        173   70.61           79             94             0
```

```
Todd Walter.  .  .  .  .  .  .  .  .  .  .     71    28.98         28              43                0
Write-In.  .  .  .  .  .  .  .  .  .  .  .      1     .41           0               1                0
        Total  .  .  .  .  .  .  .  .  .     245              107             138                0

PREC REPORT-GROUP DETAIL                       Richland County                            Unofficial Results
                                               Municipal/Referendum Election
                                               November 05, 2013
Run Date:11/12/13 10:16 AM                                                        Report EL30A Page 0750-02

0750 Absentee
                             TOTAL VOTES    %   Optical Scan     iVotronic    Flash Data

COUNTY REFERENDUM
Vote for up to  1
 Yes, in favor of the question.  .  .  .  .   1,715   71.73       301           1,414              0
 No, opposed to the question .  .  .  .  .      676   28.27       257             419              0
        Total .  .  .  .  .  .  .  .  .  .   2,391              558           1,833                0
```

The Emergency, Failsafe, Provisional and Failsafe / Provisional precinct reports are identical to the Absentee Report shown above.

The EL68A System Log

The EL68A System Log is a record of every event that occurred in the Election Management System (Unity) from the time that the election database was loaded prior to the election until the time the report was run.

Report Header

First line	Indicates the report is a summary, the county, and status of results (unofficial or official)
Second line	Name of election
Third line	Date of election
Fourth line	Date and time the report was created, name of the report and page number
Fifth line	Column titles

Audit File Descriptions

SOUTH CAROLINA
ELECTION COMMISSION

The User column is always blank and Counted Information applies only to certain events or operations contained in the log.

The first entry will always be the date and time that the database was created (loaded on to the Unity machine).

```
SYSTEM LOG LISTING                            Richland County
                                              Municipal/Referendum Election
                                              November 05, 2013
RUN DATE:11/12/13 10:17 AM                                                    ELECTION ID: 40110513

USER DATE    TIME     SYSTEM ACTION OR ERROR INFORMATION          COUNTED INFORMATION

   09-26  10:07 am  DATABASE CREATED
```

Here is an example where counted information is included in an event.

```
   11-05  07:42 pm                                      PRC 0750 PACK RECEIVED VTR  (BALS=309  TOT=309)
   11-05  07:42 pm                                      PRC 0850 PACK RECEIVED VTR
```

The auditor will refer to this log if an exception to the audit is detected by the automatic audit process or a "deeper dive" into the events of an election is required for any reason. It is not part of the automated audit process.

The EL68 Manual Entry Log

The EL68 Manual Entry Log is a record of every manual entry that occurred in the Election Management System (Unity) from the time that the election database was loaded prior to the election until the time the report was run.

Report Header

First line	Indicates the report is the Manual Changes Log Listing and the county
Second line	Name of election
Third line	Date of election
Fourth line	Date and time the report was created and the election ID
Fifth line	Column titles

Audit File Descriptions

The Election ID contains eight characters and is NORMALLY the county number and the date of the election in the form of mmddyy.

The User column is always blank, the GRP column indicates the Report Group in which the change was made if applicable. Group 3 is the Optical group, group 4 is the voting machine group.

```
MANUAL CHANGES LOG LISTING                      Sample County
                                                Sample Election
                                                Samplemonth 1, 2013
RUN DATE:11/12/13 10:17 AM                                                       ELECTION ID: 40110513
   PRECINCT                      CANDIDATE                  USER  DATE   TIME   GRP    OLD       NEW
0101 Precinct 1                  VOTERS                           11-05 04:21 pm        0      1,852
0102 Precinct 2                                                   11-05 04:21 pm        0        943
0103 Precinct 3                                                   11-05 04:21 pm        0      1,476
```

If the candidate column contains the word "VOTERS" and the Old column contains a zero, this is a manual entry for the number of registered voters in the precinct. This is a normal entry performed on Election Day usually sometime between 9 AM and 7 PM. Note that in the example above the word "VOTERS" appears only in the first entry, the subsequent entries are all blank.

In the following example we can see that the same thing happens in the precinct column.

```
0750 Absentee                    BALLOTS CAST - TOTAL            04-08 10:13 am  3        0         3
                                 Candidate A                     04-06 01:04 pm  4        0         1
                                                                 04-08 10:05 am  3        0         1
                                                                 04-08 10:11 am  4        1         0
                                 Candidate B                     04-06 01:04 pm  4       10        12
                                                                 04-08 10:05 am  3        0         2
                                                                 04-08 10:08 am  4       12        22
                                                                 04-08 10:11 am  4       22        10
```

Care must be taken when evaluating a situation where the value was changed more than once. As you can see, manual entries were made for these candidates on 04/06 and 04/08.

On 04/06
- At 1:04 PM Candidate A group 3 (Optical) was set to 1
- And Candidate B group 4 (iVotronic) was changed from 10 to 12

Audit File Descriptions

On 04/08

- At 10:05 AM Candidate A group 3 (Optical) was set to 1
- And Candidate B group 3 (Optical) was set to 2

- At 10:08 AM Candidate B Group 4 (iVotronic) 10 votes were manually added to the 12 that were there after the 04/06 manual entry

- At 10:11 AM Candidate B Group 4 (iVotronic) 12 votes were removed, returning the count to 10.

- At 10:13 AM The Total Ballots Cast in Group 3 (Optical) was set to 3.

A review of the EL68A System log indicates that there were 10 iVotronic ballots cast in the Absentee precinct that were electronically read in at 01:02 PM on 04/06. The audit confirmed that all 10 Absentee iVotronic ballots were cast for Johnson when checking the EL30A iVotronic total versus the EL155 Vote Image File.

The EL30A report for the Absentee precinct in this election is below.

```
0750 Absentee
                                    TOTAL VOTES     %   Optical Scan      iVotronic
 REGISTERED VOTERS - TOTAL .  .   .   .   .  .        0
 BALLOTS CAST - TOTAL.  .   .   .   .   .  .  .      13                 3            10


State House of Rep. Dist 64
Seat to Fill  1
 Candidate A  .  .  .  .  .  .  .  .  .  .  .      1    7.69         1             0
 Candidate B  .  .  .  .  .  .  .  .  .  .  .     12   92.31         2            10
 Write-In. .  .  .  .  .  .  .  .  .  .  .  .      0                 0             0
       Total .  .  .  .  .  .  .  .  .  .     13                 3            10
```

The above example is why the SEC Audit process automatically creates an exception when it detects that a manual entry was made. The auditor must perform a manual evaluation of the events and confirm that a mistake in the vote count was not made.

Audit File Descriptions

EL155 Vote Image Log

The EL155 Vote Image Log is a record of every ballot cast on the iVotronic voting machines in the county.

Report Header

First line	Date and time the report was created the precinct number and name and the the Election ID
Second line	Column titles

The Election ID contains eight characters and is NORMALLY the county number and the date of the election in the form of mmddyy.

The VOTR. column contains the serial number of the iVotronic voting machine upon which the vote was cast, the B/I column contains the Ballot Index which indicates which ballot style that appears in the precinct was used to cast that ballot (Note: the ballot index can be different in each precinct for a ballot style that is common to the precincts.

There is a number before the candidate name that is used to indicate precinct totals for each candidate in the precinct footer at the bottom of the each precinct. In this case candidate 2 is Steve Benjamin who received 37 votes in this precinct and candidate 7 is Tamekia Isaac Devine who received 33 voted in this precinct.

The office that the candidate is seeking is placed in the final column in this report. There is no header for that column.

Note the asterisk (*) in some of the records in this report. This indicates the first record in each ballot. So the ballot image for the first ballot shown in this report voted for Steve Benjamin, Tamekia Isaac Devine and Yes, in favor of the question put forward in the county resolution.

```
RUN DATE:11/12/13 10:16 AM                    PRECINCT  850 - Failsafe                    ELECTION ID: 40110513

VOTR.    B/I      CANDIDATES RECEIVING A VOTE
```

```
5131060    2 *    2 Steve Benjamin                    MUNCOLU Mayor
5131060    2      7 Tameika Isaac Devine              MUNCOLU City Council At Large
5131060    2     29 Yes, in favor of the question     COUNTY REFERENDUM
5131060    2 *    2 Steve Benjamin                    MUNCOLU Mayor
5131060    2      6 Tommy Burkett                     MUNCOLU City Council At Large
5131060    2     29 Yes, in favor of the question     COUNTY REFERENDUM
5131060    2 *    2 Steve Benjamin                    MUNCOLU Mayor
5131060    2      7 Tameika Isaac Devine              MUNCOLU City Council At Large
5131060    2     29 Yes, in favor of the question     COUNTY REFERENDUM
5131060    2 *    1 Moe Baddourah                     MUNCOLU Mayor
5131060    2      6 Tommy Burkett                     MUNCOLU City Council At Large
5131060    2     30 No, opposed to the question       COUNTY REFERENDUM
5131060    4 *   29 Yes, in favor of the question     COUNTY REFERENDUM
5131060    3 *    2 Steve Benjamin                    MUNCOLU Mayor
5131060    3      7 Tameika Isaac Devine              MUNCOLU City Council At Large
5131060    3     10 Sam Davis                         CTYCO01 City Council District 1
5131060    3     29 Yes, in favor of the question     COUNTY REFERENDUM
5131060    4 *   29 Yes, in favor of the question     COUNTY REFERENDUM
5131060    4 *   30 No, opposed to the question       COUNTY REFERENDUM
5131060    2 *    2 Steve Benjamin                    MUNCOLU Mayor
5131060    2      7 Tameika Isaac Devine              MUNCOLU City Council At Large
5131060    2     29 Yes, in favor of the question     COUNTY REFERENDUM
5131060    4 *   30 No, opposed to the question       COUNTY REFERENDUM
5131060    3 *    2 Steve Benjamin                    MUNCOLU Mayor
5131060    3      7 Tameika Isaac Devine              MUNCOLU City Council At Large
5131060    3     10 Sam Davis                         CTYCO01 City Council District 1
5131060    3     30 No, opposed to the question       COUNTY REFERENDUM
5131060    5 *    2 Steve Benjamin                    MUNCOLU Mayor
5131060    5      7 Tameika Isaac Devine              MUNCOLU City Council At Large
5131060    5     14 Leona K Plaugh                    CTYCO04 City Council District 4
5131060    5     29 Yes, in favor of the question     COUNTY REFERENDUM
5131060    2 *    2 Steve Benjamin                    MUNCOLU Mayor
5131060    2      7 Tameika Isaac Devine              MUNCOLU City Council At Large
5131060    2     29 Yes, in favor of the question     COUNTY REFERENDUM
5131060    4 *   29 Yes, in favor of the question     COUNTY REFERENDUM
- - - - - - - - - - - - - - - - - - - - - - - - - -  PRECINCT TOTALS  - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
CAND VOTES      CAND VOTES      CAND VOTES      CAND VOTES      CAND VOTES      CAND VOTES      CAND VOTES      CAND VOTES      CAND VOTES

   1    3        2   37        6    7        7   33       10   11       11    2       14    2       15    1       29   53
  30   13
```

Although the precinct, voting machine and the votes cast on each ballot can be determined, the order in which the ballots are cast is randomly presented in this report so neither the time of day the ballot was cast nor the voter's identity can be discovered.

Audit File Descriptions

The EL152 Event Log

EL152 Event Log is a record of every event or operation that occurred on every iVotronic voting machine used in the election. Each machine is reported sequentially in ascending serial number order. Each event or operation on a machine is reported in chronological order.

Report Header

First line	Date and time the report was created the precinct number and name and the Election ID
Second line	Column titles

The Election ID contains eight characters and is NORMALLY the county number and the date of the election in the form of mmddyy.

The Votronic column contains the serial number of the iVotronic voting machine on which the event occurred, the PEB# column contains the serial number of the PEB (Personal Electronic Ballot, the device that is used to open a terminal session on the voting machine to perform an operation such as allowing a voter to cast his or her ballot), the Type column contains the type of PEB being used, normally SUP.

Date and time are read from an internal clock on each machine that can be set during the set up during the machine configuration prior to each election. If this operation is not performed or performed incorrectly during set up, the time and date will be incorrect.

```
RUN DATE:01/22/14 10:11 AM                                    ELECTION ID: 42012114

Votronic  PEB#   Type   Date        Time      Event

5119365  138511  SUP    01/24/2013  15:22:20  0000601 Zero terminal config data
                 SUP    01/24/2013  15:22:21  0001607 Clear-n-test term flash successful
                 SUP    01/24/2013  15:22:25  0000116 Select: Configure Terminal
                 SUP    01/24/2013  15:22:27  0000117 Select: Set Time and Date
                 SUP    01/24/2013  15:27:27  0001656 Set terminal date and/or time
```

Audit File Descriptions

```
        SUP    01/24/2013 15:27:45    0000117 Select: Set Time and Date
        SUP    01/24/2013 15:27:45    0001656 Set terminal date and/or time
        SUP    01/24/2013 15:27:51    0001633 Terminal shutdown
        SUP    01/13/2014 13:48:30    0001715 Super PEB type - clear and test
        SUP    01/13/2014 13:48:30    0001649 Term - entered service menus
        SUP    01/13/2014 13:48:33    0000114 Select: Setup & Configuration Menu
        SUP    01/13/2014 13:48:33    0000300 Start password procedure
        SUP    01/13/2014 13:49:05    0000116 Select: Configure Terminal
        SUP    01/13/2014 13:49:08    0000117 Select: Set Time and Date
        SUP    01/13/2014 13:58:08    0001656 Set terminal date and/or time
        SUP    01/13/2014 13:58:14    0001633 Terminal shutdown
139391  SUP    01/21/2014 06:44:12    0002808 Terminal - opening state
        SUP    01/21/2014 06:44:48    0001303 Transfer PEB vote data to terminal
        SUP    01/21/2014 06:44:53    0002804 Terminal - blank state
        SUP    01/21/2014 06:44:53    0002802 Terminal - open state
        SUP    01/21/2014 06:44:54    0002808 Terminal - opening state
        SUP    01/21/2014 06:44:54    0001319 Update PEB's terminal record
        SUP    01/21/2014 06:44:54    0001303 Transfer PEB vote data to terminal
        SUP    01/21/2014 06:44:57    0001210 Transfer terminal vote data to PEB
        SUP    01/21/2014 06:45:22    0001211 Terminal votes to PEB successful
        SUP    01/21/2014 06:45:30    0002802 Terminal - open state
        SUP    01/21/2014 06:45:30    0001672 Terminal Opened
        SUP    01/21/2014 06:45:39    0001633 Terminal shutdown
138297  SUP    01/21/2014 07:05:52    0001510 Vote cast by voter
        SUP    01/21/2014 07:07:22    0001510 Vote cast by voter
        SUP    01/21/2014 07:42:19    0001721 PEB pulled while getting PEB type
        SUP    01/21/2014 07:42:19    0002405 Failed to get PEB type
        SUP    01/21/2014 07:42:19    0000706 Failed to retrieve EQC from PEB
        SUP    01/21/2014 07:42:19    0001635 Terminal shutdown - IPS exit
        SUP    01/21/2014 07:44:37    0001510 Vote cast by voter
151046  SUP    01/21/2014 07:48:47    0001510 Vote cast by voter
        SUP    01/21/2014 08:14:40    0001510 Vote cast by voter
138297  SUP    01/21/2014 08:18:16    0001510 Vote cast by voter
        SUP    01/21/2014 08:21:03    0001510 Vote cast by voter
151046  SUP    01/21/2014 08:22:45    0001510 Vote cast by voter
        SUP    01/21/2014 08:26:54    0001510 Vote cast by voter
138297  SUP    01/21/2014 08:30:02    0001510 Vote cast by voter
0       UNK    01/21/2014 17:42:22    0001721 PEB pulled while getting PEB type
        UNK    01/21/2014 17:42:22    0002405 Failed to get PEB type
        UNK    01/21/2014 17:42:22    0002400 PEB access failed
        UNK    01/21/2014 17:42:22    0002400 PEB access failed
        UNK    01/21/2014 17:42:24    0002400 PEB access failed
        UNK    01/21/2014 17:42:24    0000706 Failed to retrieve EQC from PEB
138297  SUP    01/21/2014 18:17:34    0001510 Vote cast by voter
        SUP    01/21/2014 18:21:39    0001510 Vote cast by voter
        SUP    01/21/2014 18:32:15    0001510 Vote cast by voter
```

```
151046  SUP    01/21/2014 18:45:32    0001510 Vote cast by voter
        SUP    01/21/2014 18:49:22    0001510 Vote cast by voter
        SUP    01/21/2014 18:54:53    0001510 Vote cast by voter
139391  SUP    01/21/2014 19:00:25    0002810 Terminal – time to close voting
        SUP    01/21/2014 19:00:29    0001626 Close terminal
        SUP    01/21/2014 19:00:29    0002809 Terminal – closing state
        SUP    01/21/2014 19:00:29    0001221 Collect terminal vote data to PEB
        SUP    01/21/2014 19:00:48    0001303 Transfer PEB vote data to terminal
        SUP    01/21/2014 19:00:55    0001208 Merge terminal & PEB vote data
        SUP    01/21/2014 19:00:57    0002802 Terminal – open state
        SUP    01/21/2014 19:00:57    0002803 Terminal – closed state
        SUP    01/21/2014 19:00:57    0002809 Terminal – closing state
        SUP    01/21/2014 19:01:01    0001210 Transfer terminal vote data to PEB
        SUP    01/21/2014 19:01:27    0001211 Terminal votes to PEB successful
        SUP    01/21/2014 19:01:27    0001214 Transfer terminal writein data to PEB
        SUP    01/21/2014 19:01:34    0001215 Terminal write-in data to PEB successful
        SUP    01/21/2014 19:01:34    0001222 Terminal vote collection successful
        SUP    01/21/2014 19:01:35    0002803 Terminal – closed state
        SUP    01/21/2014 19:01:35    0001673 Terminal Closed
        SUP    01/21/2014 19:01:43    0001401 Copy terminal flash audit data to CF
        SUP    01/21/2014 19:01:43    0001400 Verify terminal flash audit data
        SUP    01/21/2014 19:01:51    0001416 Copy audit data from TF 1 to CF
```

Each event has an event code and a description of the event. The log segment shown above shows a typical set of events or operations that occur on a single machine during an election. The first message is always "0000601 Zero terminal config data" and the last is always "0001416 Copy audit data from TF 1 to CF".

Note: there are a couple of event sequences that are created by improper insertion of the PEB into the voting machine. Usually the PEB is pulled before it has a chance to handshake properly with the voting machine. Depending of the timing of that pulling, a sequence similar to the sequences below can be generated.

```
        SUP    01/21/2014 12:37:46    0002400 PEB access failed
        SUP    01/21/2014 12:37:46    0000706 Failed to retrieve EQC from PEB
        SUP    01/21/2014 12:37:46    0001635 Terminal shutdown – IPS exit

        SUP    01/21/2014 16:03:43    0001720 PEB pulled during PEB block verify
        SUP    01/21/2014 16:03:43    0002210 PEB block CRC error
        SUP    01/21/2014 16:03:43    0001302 Failed to get PEB vote header block
        SUP    01/21/2014 16:03:44    0002400 PEB access failed
        SUP    01/21/2014 16:03:44    0000706 Failed to retrieve EQC from PEB
```

SOUTH CAROLINA
ELECTION COMMISSION

```
SUP    01/21/2014 16:03:45    0001635 Terminal shutdown - IPS exit
```

When this happens, the poll worker waits a few seconds and tries again, waiting longer after the insertion and the voting process continues normally. Despite the alarming message "Terminal shutdown - IPS exit" this is not a critical error. It is a message that states that the terminal session initiated by the insertion of the PEB has ended.