Greenville Ballot Audit Report

Prec Nber	Precinct Name	EL30A				Audit				Comments
		Total	Opt	iVo	Flash	iVo	Opt	Man	Delta	
0231	ALTAMONT FOREST	27	0	27	0	27	0	0	0	
0245	CLEAR CREEK	74	0	74	0	74	0	0	0	
0247	DARBY RIDGE	99	0	99	0	99	0	0	0	
0254	EBENEZER	197	0	197	0	197	0	0	0	
0262	FURMAN	146	0	146	0	146	0	0	0	
0269	JENNINGS MILL	146	0	146	0	146	0	0	0	
0275	MARIDELL	130	0	130	0	130	0	0	0	
0286	MOUNTAIN VIEW	227	0	227	0	227	0	0	0	
0307	SANDY FLAT	208	0	208	0	208	0	0	0	
0317	SLATER MARIETTA	220	0	220	0	220	0	0	0	
0325	SULPHUR SPRINGS	3	0	3	0	3	0	0	0	
0330	TIGERVILLE	229	0	229	0	229	0	0	0	
0334	TUBBS MOUNTAIN	220	0	220	0	220	0	0	0	
0365	TRAVELERS REST 1	178	0	178	0	178	0	0	0	
0366	TRAVELERS REST 2	108	0	108	0	108	0	0	0	
Precincts Total:		2212	0	2212	0	2212	0	0	0	
0750	ABSENTEE	30	8	22	0	22	8	0	0	
0800	PROVISIONAL	5	5	0	0	0	5	0	0	
0850	FAILSAFE	0	0	0	0	0	0	0	0	
0900	EMERGENCY	0	0	0	0	0	0	0	0	
Virtual Precincts Total:		35	13	22	0	22	13	0	0	
Grand Total:		2247	13	2234	0	2234	13	0	0	

Total number of iVotronic ballots cast containg no votes: 12

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

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

```
+-------------------+------------------+---------------+
| EL30A Ivo Ballots |    EL155 Ballots | EL152 Ballots |
+-------------------+------------------+---------------+
|              2234 |             2234 |          2234 |
|   Delta from EL30A |                0 |             0 |
|                   | Delta from EL155 |             0 |
+-------------------+------------------+---------------+
|                   |     Cast By Voter |         2233 |
|                   | Cast By Poll Wkr |             1 |
|                   | Blank Cast by PW |             0 |
+-------------------+------------------+---------------+
|                   | Cancelled Ballots|            12 |
+-------------------+------------------+---------------+
|                   |      Wrong Ballot |            0 |
|                   |      Voter Left AB |            0 |   (AB = After ballot selected by poll worker.)
|                   |      Voter Left BB |            0 |   (BB = Before ballot selected by poll worker.)
```

```
|     Voter Request |             1 |
|    Printer Problem |             0 |
|  Terminal Problem |             4 |
|      Other Reason |             7 |
+-------------------+---------------+
```

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.

Greenville Vote Level Audit Report

```
Precinct Number / Name                                      |--------------------EL30A-----------------|-----Audit-------|
Office                           Candidate        Party  |   Total    Optical        iVo     Flash  |    iVo    Delta| Comments
-------------------------------------------------------------------------------------------------------------------------------

0231  ALTAMONT FOREST
Init - SC House District 17      Mike Burns                      8          0          8         0          8       0
Init - SC House District 17      Roy Harmon                      0          0          0         0 * No Audit Data expected or found
Init - SC House District 17      Tom Kolarik                     0          0          0         0 * No Audit Data expected or found
Init - SC House District 17      Chris Sullivan                 19          0         19         0         19       0
Init - SC House District 17      Randall Young                   0          0          0         0 * No Audit Data expected or found

0245  CLEAR CREEK
Init - SC House District 17      Mike Burns                      8          0          8         0          8       0
Init - SC House District 17      Roy Harmon                      1          0          1         0          1       0
Init - SC House District 17      Tom Kolarik                     1          0          1         0          1       0
Init - SC House District 17      Chris Sullivan                 64          0         64         0         64       0
Init - SC House District 17      Randall Young                   0          0          0         0 * No Audit Data expected or found

0247  DARBY RIDGE
Init - SC House District 17      Mike Burns                     33          0         33         0         33       0
Init - SC House District 17      Roy Harmon                      6          0          6         0          6       0
Init - SC House District 17      Tom Kolarik                     0          0          0         0 * No Audit Data expected or found
Init - SC House District 17      Chris Sullivan                 60          0         60         0         60       0
Init - SC House District 17      Randall Young                   0          0          0         0 * No Audit Data expected or found

0254  EBENEZER
Init - SC House District 17      Mike Burns                     92          0         92         0         92       0
Init - SC House District 17      Roy Harmon                     23          0         23         0         23       0
Init - SC House District 17      Tom Kolarik                     6          0          6         0          6       0
Init - SC House District 17      Chris Sullivan                 71          0         71         0         71       0
Init - SC House District 17      Randall Young                   3          0          3         0          3       0

0262  FURMAN
Init - SC House District 17      Mike Burns                     53          0         53         0         53       0
Init - SC House District 17      Roy Harmon                     21          0         21         0         21       0
Init - SC House District 17      Tom Kolarik                     1          0          1         0          1       0
Init - SC House District 17      Chris Sullivan                 67          0         67         0         67       0
Init - SC House District 17      Randall Young                   3          0          3         0          3       0

0269  JENNINGS MILL
Init - SC House District 17      Mike Burns                     56          0         56         0         56       0
Init - SC House District 17      Roy Harmon                     11          0         11         0         11       0
Init - SC House District 17      Tom Kolarik                     6          0          6         0          6       0
Init - SC House District 17      Chris Sullivan                 71          0         71         0         71       0
Init - SC House District 17      Randall Young                   2          0          2         0          2       0

0275  MARIDELL
Init - SC House District 17      Mike Burns                     63          0         63         0         63       0
Init - SC House District 17      Roy Harmon                      9          0          9         0          9       0
Init - SC House District 17      Tom Kolarik                     5          0          5         0          5       0
```

| Init - SC House District 17 | Chris Sullivan | 52 | 0 | 52 | 0 | 52 | 0 |
| Init - SC House District 17 | Randall Young | 1 | 0 | 1 | 0 | 1 | 0 |

0286   MOUNTAIN VIEW
Init - SC House District 17	Mike Burns	133	0	133	0	133	0
Init - SC House District 17	Roy Harmon	10	0	10	0	10	0
Init - SC House District 17	Tom Kolarik	7	0	7	0	7	0
Init - SC House District 17	Chris Sullivan	72	0	72	0	72	0
Init - SC House District 17	Randall Young	4	0	4	0	4	0

0307   SANDY FLAT
Init - SC House District 17	Mike Burns	109	0	109	0	109	0
Init - SC House District 17	Roy Harmon	12	0	12	0	12	0
Init - SC House District 17	Tom Kolarik	5	0	5	0	5	0
Init - SC House District 17	Chris Sullivan	79	0	79	0	79	0
Init - SC House District 17	Randall Young	1	0	1	0	1	0

0317   SLATER MARIETTA
Init - SC House District 17	Mike Burns	110	0	110	0	110	0
Init - SC House District 17	Roy Harmon	12	0	12	0	12	0
Init - SC House District 17	Tom Kolarik	7	0	7	0	7	0
Init - SC House District 17	Chris Sullivan	81	0	81	0	81	0
Init - SC House District 17	Randall Young	8	0	8	0	8	0

0325   SULPHUR SPRINGS
Init - SC House District 17	Mike Burns	2	0	2	0	2	0
Init - SC House District 17	Roy Harmon	0	0	0	0 * No Audit Data expected or found
Init - SC House District 17	Tom Kolarik	0	0	0	0 * No Audit Data expected or found
Init - SC House District 17	Chris Sullivan	1	0	1	0	1	0
Init - SC House District 17	Randall Young	0	0	0	0 * No Audit Data expected or found

0330   TIGERVILLE
Init - SC House District 17	Mike Burns	130	0	130	0	130	0
Init - SC House District 17	Roy Harmon	13	0	13	0	13	0
Init - SC House District 17	Tom Kolarik	8	0	8	0	8	0
Init - SC House District 17	Chris Sullivan	77	0	77	0	77	0
Init - SC House District 17	Randall Young	0	0	0	0 * No Audit Data expected or found

0334   TUBBS MOUNTAIN
Init - SC House District 17	Mike Burns	131	0	131	0	131	0
Init - SC House District 17	Roy Harmon	14	0	14	0	14	0
Init - SC House District 17	Tom Kolarik	14	0	14	0	14	0
Init - SC House District 17	Chris Sullivan	61	0	61	0	61	0
Init - SC House District 17	Randall Young	0	0	0	0 * No Audit Data expected or found

0365   TRAVELERS REST 1
Init - SC House District 17	Mike Burns	105	0	105	0	105	0
Init - SC House District 17	Roy Harmon	5	0	5	0	5	0
Init - SC House District 17	Tom Kolarik	10	0	10	0	10	0
Init - SC House District 17	Chris Sullivan	54	0	54	0	54	0
Init - SC House District 17	Randall Young	1	0	1	0	1	0

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0366  TRAVELERS REST 2
Init - SC House District 17          Mike Burns              60        0        60        0        60        0
Init - SC House District 17          Roy Harmon               4        0         4        0         4        0
Init - SC House District 17          Tom Kolarik              5        0         5        0         5        0
Init - SC House District 17          Chris Sullivan          38        0        38        0        38        0
Init - SC House District 17          Randall Young            1        0         1        0         1        0


0750  ABSENTEE
Init - SC House District 17          Mike Burns              21        4        17        0        17        0
Init - SC House District 17          Roy Harmon               2        0         2        0         2        0
Init - SC House District 17          Tom Kolarik              0        0         0        0 * No Audit Data expected or found
Init - SC House District 17          Chris Sullivan           7        4         3        0         3        0
Init - SC House District 17          Randall Young            0        0         0        0 * No Audit Data expected or found


0800  PROVISIONAL
Init - SC House District 17          Mike Burns               3        3         0        0 * All votes cast for this candidate
                                                                                           * in this precicnt are optical.
                                                                                           * No Audit Data for optical.

Init - SC House District 17          Roy Harmon               0        0         0        0 * No Audit Data expected or found
Init - SC House District 17          Tom Kolarik              0        0         0        0 * No Audit Data expected or found
Init - SC House District 17          Chris Sullivan           2        2         0        0 * All votes cast for this candidate
                                                                                           * in this precicnt are optical.
                                                                                           * No Audit Data for optical.

Init - SC House District 17          Randall Young            0        0         0        0 * No Audit Data expected or found


0850  FAILSAFE
Init - SC House District 17          Mike Burns               0        0         0        0 * No Audit Data expected or found
Init - SC House District 17          Roy Harmon               0        0         0        0 * No Audit Data expected or found
Init - SC House District 17          Tom Kolarik              0        0         0        0 * No Audit Data expected or found
Init - SC House District 17          Chris Sullivan           0        0         0        0 * No Audit Data expected or found
Init - SC House District 17          Randall Young            0        0         0        0 * No Audit Data expected or found


0900  EMERGENCY
Init - SC House District 17          Mike Burns               0        0         0        0 * No Audit Data expected or found
Init - SC House District 17          Roy Harmon               0        0         0        0 * No Audit Data expected or found
Init - SC House District 17          Tom Kolarik              0        0         0        0 * No Audit Data expected or found
Init - SC House District 17          Chris Sullivan           0        0         0        0 * No Audit Data expected or found
Init - SC House District 17          Randall Young            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 precicnt 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

Greenville EL30A45A Comparison Report

Office	Candidate	Party	EL30A Tot	Opt	iVo	Flash	EL45A Tot	Opt	iVo	Flash	Delta
SC House District 17	Mike Burns		1117	7	1110	0	1117	7	1110	0	0
SC House District 17	Roy Harmon		143	0	143	0	143	0	143	0	0
SC House District 17	Tom Kolarik		75	0	75	0	75	0	75	0	0
SC House District 17	Chris Sullivan		876	6	870	0	876	6	870	0	0
SC House District 17	Randall Young		24	0	24	0	24	0	24	0	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.

Greenville PEB Use Report

Precinct	PEBs Used	Comments
ALTAMONT FOREST	138687	
CLEAR CREEK	151677	
DARBY RIDGE	139976	
EBENEZER	155423	
FURMAN	137736	
JENNINGS MILL	137638	
MARIDELL	137358	
MOUNTAIN VIEW	150665	
SANDY FLAT	154578	
SLATER MARIETTA	119948	
SULPHUR SPRINGS	137736	
TIGERVILLE	138519	
TUBBS MOUNTAIN	138687	
TRAVELERS REST 1	155743	
TRAVELERS REST 2	136887	
ABSENTEE	155471	

16 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.

Greenville PEB Exceptions Report

iVo #	Op PEB	Open Time	Cl PEB	Close Time	Exception Type	Precinct - Ballots Cast
5102020	154578	01/22/2013 07:17:10	154578	01/22/2013 19:15:25	Open Time	SANDY FLAT - 8
5110127	154578	01/22/2013 07:49:09	154578	01/22/2013 19:20:27	Open Time	SANDY FLAT - 18
5119735	154578	01/22/2013 07:12:43	154578	01/22/2013 19:14:28	Open Time	SANDY FLAT - 21
5123240	154578	01/22/2013 08:13:58	154578	01/22/2013 19:13:58	Open Time	SANDY FLAT - 49
5125389	155471	01/09/2013 14:22:53	155471	01/22/2013 16:43:26	>>Open Date<<	ABSENTEE - 10
5125389	155471	01/09/2013 14:22:53	155471	01/22/2013 16:43:26	Open Time	ABSENTEE - 10
5125389	155471	01/09/2013 14:22:53	155471	01/22/2013 16:43:26	Close Time	ABSENTEE - 10
5126153	138519	01/22/2013 07:13:14	138519	01/22/2013 19:11:51	Open Time	TIGERVILLE - 119
5130513	154578	01/22/2013 11:34:58	154578	01/22/2013 19:09:48	Open Time	SANDY FLAT - 35
5131658	155471	01/09/2013 14:23:45	155471	01/22/2013 16:45:33	>>Open Date<<	ABSENTEE - 12
5131658	155471	01/09/2013 14:23:45	155471	01/22/2013 16:45:33	Open Time	ABSENTEE - 12
5131658	155471	01/09/2013 14:23:45	155471	01/22/2013 16:45:33	Close Time	ABSENTEE - 12

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.