

Richland State House 70 Runoff Audit Report

Richland Ballot Audit Report
 Election: State House 70 Runoff
 Audit Date: 09:55:34, Fri May 19, 2017

Prec Nber	Precinct Name	EL30A				Audit				Comments
		Total	Opt	iVo	Flash	iVo	Opt	Man	Delta	
0405	Bluff	247	0	247	0	247	0	0	0	
0410	Brandon 1	109	0	109	0	109	0	0	0	
0411	Brandon 2	64	0	64	0	64	0	0	0	
0423	Eastover	348	0	348	0	348	0	0	0	
0434	Gadsden	373	0	373	0	373	0	0	0	
0441	Hopkins 1	304	0	304	0	304	0	0	0	
0442	Hopkins 2	345	0	345	0	345	0	0	0	
0443	Horrell Hill	0	0	0	0	0	0	0	0	
0444	Hunting Creek	64	0	64	0	64	0	0	0	
0470	Olympia	0	0	0	0	0	0	0	0	
0507	Trinity	75	0	75	0	75	0	0	0	
Precincts Total:		1929	0	1929	0	1929	0	0	0	
0750	Absentee	184	116	68	0	68	116	0	0	
0800	Emergency	0	0	0	0	0	0	0	0	
0850	Fail safe	1	0	1	0	1	0	0	0	
0900	Provisional	2	2	0	0	0	2	0	0	
Virtual Precincts Total:		187	118	69	0	69	118	0	0	
Grand Total:		2116	118	1998	0	1998	118	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 containing no votes: 29
 The following precincts have no ballots cast in them: Horrell Hill, Olympia, Emergency
 This audit is complete and has no exceptions.

Status of ERM Reports
 EL30A is marked Official
 EL45A is marked Official

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

EL30A iVo Ballots	EL155 Ballots	EL152 Ballots
1998	1998	1998
Delta from EL30A	0	0
	Delta from EL155	0

Richard State House 70 Runoff Audit Report

Cast By Voter	1996	
Cast By Poll Wkr	2	
Blank Cast by PW	0	

Cancelled Ballots	13	

Wrong Ballot	2	
Voter Left AB	0	(AB = After ballot selected by poll worker.)
Voter Left BB	0	(BB = Before ballot selected by poll worker.)
Voter Request	0	
Printer Problem	1	
Terminal Problem	3	
Other Reason	7	

Number of audio (ADA) events in this election: 0

Note: The following machines(s) have audit records but no ballots were cast on them: 5133894
 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 immediately 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 precinct 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

Richland State House 70 Runoff Audit Report

Counting 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 electronically 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 highlighted 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 number ballots cast in the EL30A match the numbers in the EL155 and the EL152 report. Then there are some statistics pulled from the EL152 report 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.

 Richland Vote Level Audit Report
 Election: State House 70 Runoff
 Audit Date: 09:56:19, Fri May 19, 2017

Precinct Number / Name Office	Candidate	Party	EL30A				Audit		Comments
			Total	Optical	iVo	Flash	iVo	Delta	
0405 Bluff State House of Rep Dist 70	Wendy Brawley	(DEM)	194	0	194	0	194	0	#####
State House of Rep Dist 70	H Heath Hill	(DEM)	47	0	47	0	47	0	
0410 Brandon 1									#####

Richland State House 70 Runoff Audit Report

State House of Rep Dist 70	Wendy Brawley	(DEM)	69	0	69	0	69	0	
State House of Rep Dist 70	H Heath Hill	(DEM)	39	0	39	0	39	0	
0411 Brandon 2 #####									
State House of Rep Dist 70	Wendy Brawley	(DEM)	46	0	46	0	46	0	
State House of Rep Dist 70	H Heath Hill	(DEM)	18	0	18	0	18	0	
0423 Eastover #####									
State House of Rep Dist 70	Wendy Brawley	(DEM)	164	0	164	0	164	0	
State House of Rep Dist 70	H Heath Hill	(DEM)	175	0	175	0	175	0	
0434 Gadsden #####									
State House of Rep Dist 70	Wendy Brawley	(DEM)	228	0	228	0	228	0	
State House of Rep Dist 70	H Heath Hill	(DEM)	139	0	139	0	139	0	
0441 Hopkins 1 #####									
State House of Rep Dist 70	Wendy Brawley	(DEM)	217	0	217	0	217	0	
State House of Rep Dist 70	H Heath Hill	(DEM)	83	0	83	0	83	0	
0442 Hopkins 2 #####									
State House of Rep Dist 70	Wendy Brawley	(DEM)	309	0	309	0	309	0	
State House of Rep Dist 70	H Heath Hill	(DEM)	34	0	34	0	34	0	
0443 Horrell Hill #####									
State House of Rep Dist 70	Wendy Brawley	(DEM)	0	0	0	0	* No Audit Data expected or found		
State House of Rep Dist 70	H Heath Hill	(DEM)	0	0	0	0	* No Audit Data expected or found		
0444 Hunting Creek #####									
State House of Rep Dist 70	Wendy Brawley	(DEM)	36	0	36	0	36	0	
State House of Rep Dist 70	H Heath Hill	(DEM)	28	0	28	0	28	0	
0470 Olympia #####									
State House of Rep Dist 70	Wendy Brawley	(DEM)	0	0	0	0	* No Audit Data expected or found		
State House of Rep Dist 70	H Heath Hill	(DEM)	0	0	0	0	* No Audit Data expected or found		
0507 Trinity #####									
State House of Rep Dist 70	Wendy Brawley	(DEM)	47	0	47	0	47	0	
State House of Rep Dist 70	H Heath Hill	(DEM)	28	0	28	0	28	0	
0750 Absentee #####									
State House of Rep Dist 70	Wendy Brawley	(DEM)	87	53	34	0	34	0	
State House of Rep Dist 70	H Heath Hill	(DEM)	96	63	33	0	33	0	
0800 Emergency #####									
State House of Rep Dist 70	Wendy Brawley	(DEM)	0	0	0	0	* No Audit Data expected or found		
State House of Rep Dist 70	H Heath Hill	(DEM)	0	0	0	0	* No Audit Data expected or found		
0850 Fallsafe #####									

Richard State House 70 Runoff Audit Report

State House of Rep Dist 70	Wendy Brawley	(DEM)	0	0	0	0	* No Audit Data expected or found
State House of Rep Dist 70	H Heath Hill	(DEM)	1	0	1	0	1 0
0900 Provisional	#####						
State House of Rep Dist 70	Wendy Brawley	(DEM)	1	1	0	0	* All votes cast for this candidate in this precinct are optical. * No Audit Data for optical.
State House of Rep Dist 70	H Heath Hill	(DEM)	1	1	0	0	* All votes cast for this candidate in this precinct are optical. * No Audit Data for optical.

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 candidate 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. Counting the number of times a candidate name for a contest appears in a precinct we get the number of votes cast in that precinct for that candidate. 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 electronically readable audit files. So if the audit data iVotronic total votes

Richland State House 70 Runoff Audit Report

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.

Finally 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

 Richland EL30A45A Comparison Report
 Election: State House 70 Runoff
 Audit Date: 9:55:14, Fri May 19, 2017

Office	Candidate	Party	EL30A				EL45A				
			Tot	Opt	iVo	Flash	Tot	Opt	iVo	Flash	Delta
State House of Rep Dist 70	Wendy Brawley	(DEM)	1398	54	1344	0	1398	54	1344	0	0
State House of Rep Dist 70	H Heath Hill	(DEM)	689	64	625	0	689	64	625	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 precinct 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.

Richland State House 70 Runoff Audit Report

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.

Richland PEB Use Report

Election: State House 70 Runoff
Audit Date: 09:55:34, Fri May 19, 2017

Precinct	PEBs Used	Comments
Bluff	157425	
Brandon 1	153145	
Brandon 2	153216	
Eastover	157152	
Gadsden	152529	
Hopkins 1	152881	
Hopkins 2	157719	
Hunting Creek	157645	
Trinity	157438	
Absentee	152964	
Fail safe	152964	

11 precincts processed

The following precinct(s) have no ballots cast in them: Horrell Hill, Olympia, Emergency

Note: if there are no ballots cast in a precinct the machines in that precinct cannot be identified so these precinct(s) will not appear in this report.

How to read this report.

This is the PEB Used report. It lists the precincts 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

Richland State House 70 Runoff Audit Report

Audit Report against the iVotronic paper tapes and the Poll Book to make sure that all the ballots have been collected and tabulated.

 Richland PEB Exceptions Report
 Election: State House 70 Runoff
 Election date: 05/16/2017
 Audit Date: 09:55:34, Fri May 19, 2017

iVo #	Op PEB	Open Time	Cl PEB	Close Time	Exception Type	Precinct - Ballots Cast
5109339	152964	05/08/2017 12:46:52	152964	05/16/2017 19:03:21	>>Open Date<<	Absentee - 41
5109339	152964	05/08/2017 12:46:52	152964	05/16/2017 19:03:21	Open Time	Absentee - 41
5133894	152964	05/08/2017 12:51:03	152964	05/16/2017 19:04:05	>>Open Date<<	>>>No Ballots<<<
5133894	152964	05/08/2017 12:51:03	152964	05/16/2017 19:04:05	Open Time	>>>No Ballots<<<
5134741	152964	05/08/2017 12:52:05	152964	05/16/2017 19:05:53	>>Open Date<<	Absentee - 27 Fail safe - 1
5134741	152964	05/08/2017 12:52:05	152964	05/16/2017 19:05:53	Open Time	Absentee - 27 Fail safe - 1

The following machine(s) have audit records but no ballots were cast on them: 5133894
 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 Fail safe precinct machines are opened during the middle of the day several days before the election date of 05/16/2017. So it is normal for these machines to appear on this report with Open Date and Open Time exceptions.