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                        REFERENCE TITLE: elections; manual audit revisions
State of Arizona
Senate
Forty-eighth Legislature
Second Regular Session
2008
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## SB 1477

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Introduced by Senators Johnson: Gray L
AN ACT
AMENDING SECTIONS 16-449, 16-602 AND 16-663, ARIZONA REVISED STATUTES; RELATING TO CONDUCT OF ELECTIONS.
(TEXT OF BILL BEGINS ON NEXT PAGE)
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Be it enacted by the Legislature of the State of Arizona:
Section 1. Section 16-449, Arizona Revised Statutes, is amended to read:

16-449. Required test of equipment and programs; notice;
procedures manual; list of equipment tested
A. Within the period of time before the election day prescribed by the secretary of state in the instructions and procedures manual adopted pursuant to section 16-452, the board of supervisors or other election officer in charge, or for an election involving state or federal candidates, the secretary of state, shall have the automatic tabulating equipment and programs tested to ascertain that the equipment and programs will correctly count the votes cast for all offices and on all measures AND SHALL VERIFY THAT ALL SOFTWARE AND FIRMWARE USED IN THE EQUIPMENT AND SYSTEM ARE VERSIONS CERTIFIED FOR USE BY THE SECRETARY OF STATE. Public notice of the time and place of the test shall be given at least forty-eight hours prior thereto by publication once in one or more daily or weekly newspapers published in the town, city or village using such equipment, if a newspaper is published therein, otherwise in a newspaper of general circulation therein. The test shall be observed by at least two election inspectors, who shall not be of the same political party, and shall be open to representatives of the political parties, candidates, the press and the public. The test shall be conducted by processing a preaudited group of ballots so punched or marked as to record a predetermined number of valid votes for each candidate and on each measure and shall include for each office one or more ballots which have votes in excess of the number allowed by law in order to test the ability of the automatic tabulating equipment and programs to reject such votes. PARTY REPRESENTATIVES MAY CONDUCT THEIR OWN TESTING USING BALLOTS MARKED BY THE PARTY REPRESENTATIVES. If any error is detected, the cause therefor shall be ascertained and corrected and an errorless count shall be made before the automatic tabulating equipment and programs are approved. A copy of a revised program shall be filed with the secretary of state within forty-eight hours after the revision is made. If the error was created by automatic tabulating equipment malfunction, a report shall be filed with the secretary of state within forty-eight hours after the correction is made, stating the cause and the corrective action taken. The test shall be repeated immediately before the start of the official count of the ballots in the same manner as set forth above. After the completion of the count, the programs used and the ballots shall be sealed, retained and disposed of as provided for paper ballots.
B. Electronic ballot tabulating systems shall be tested for logic and accuracy within seven days before their use for early balloting pursuant to the instructions and procedures manual for electronic voting systems that is adopted by the secretary of state as prescribed by section 16-452. The instructions and procedures manual shall include procedures for the handing
of ballots, the electronic scanning of ballots and any other matters necessary to ensure the maximum degree of correctness, impartiality and uniformity in the administration of an electronic ballot tabulating system. C. THE SECRETARY OF STATE OR OFFICER IN CHARGE OF ELECTIONS, AS APPLICABLE, SHALL PRODUCE AND RETAIN AN AUDIT LOG AND DIRECTORY LISTINGS FOR EQUIPMENT TESTED.

Sec. 2. Section 16-602, Arizona Revised Statutes, is amended to read:
16-602. Removal of ballots from ballot boxes; disposition of
ballots folded together or excessive ballots;
designated margin; hand counts: vote count

## verification committee

A. The ballots cast in the election shall first be removed from the ballot box and counted without being opened, except as may be necessary to ascertain that the number of ballots cast corresponds with the number of names on the poll lists.
B. If two or more ballots are found folded together appearing as a single ballot, they shall be laid aside until the count of the ballots is completed. If it then appears by comparison of the count with the number of names on the poll lists that the ballots thus folded together were cast by one elector, they shall be destroyed. If the ballots in the box are still found to exceed in number the names on the poll lists, the ballots, except those destroyed, shall be replaced in the box, and one of the judges, without looking in the box, shall draw therefrom, one at a time, and destroy unopened, a number of ballots equal to the excess, and the election board shall record on the poll lists the number of ballots so destroyed and shall then sign the poll list.
C. For each countywide primary, general and presidential preference election, the county officer in charge of the election shall conduct a hand count at the central counting center in the following order:

1. At least two per cent of the precincts in that county, or two precincts, whichever is greater, shall be selected at random from a pool consisting of every precinct in that county. The county political party chairman for each political party that is entitled to continued representation on the state ballot or the chairman's designee shall conduct the selection of the precincts to be hand counted. The precincts shall be selected by lot without the use of a computer, and the order of selection by the county political party chairmen shall also be by lot. The selection of the precincts shall not begin until all ballots voted in the precinct poling places have been delivered to the central counting center. The unofficial vote totals from all precincts shall be made public before selecting the precincts to be hand counted. Only the ballots cast in the polling places and ballots from direct recording electronic machines shall be included in the hand counts conducted pursuant to this section. Provisional ballots, conditional provisional ballots and write-in votes shall not be included in
the hand counts and the early ballots shall be grouped separately by the officer in charge of elections for purposes of a separate manual audit pursuant to subsection $G$ of this section.
2. The races to be counted on the ballots from the precincts that were selected pursuant to paragraph 1 of this subsection for each primary and general election shall include up to five contested races. After the county recorder or other officer in charge of elections separates the primary ballots by political party, the races to be counted shall be determined by selecting by lot without the use of a computer from those ballots as follows:
(a) For a general election, one statewide ballot measure, unless there are no measures on the ballot.
(b) One contested statewide race for statewide office.
(c) One contested race for federal office, either United States senate or United States house of representatives. If the United States house of representatives race is selected, the names of the candidates may vary among the sampled precincts.
(d) One contested race for state legislative office, either state house of representatives or state senate. In either case, the names of the candidates may vary among the sampled precincts.
(e) If there are fewer than four contested races resulting from the selections made pursuant to subdivisions (a) through (d) and if there are additional contested federal, statewide or legislative races or ballot measures, additional contested races shall be selected by lot not using a computer until four races have been selected or until no additional contested federal, statewide or legislative races or ballot measures are available for selection.
(f) If there are no contested races as prescribed by this paragraph, a hand count shall not be conducted for that precinct for that election.
3. For the presidential preference election, select by lot two per cent of the polling places designated and used pursuant to section 16-248 and perform the hand count of those ballots.
4. For the purposes of this section, a write-in candidacy in a race does not constitute a contested race.
5. In elections in which there are candidates for president, the presidential race shall be added to the four categories of hand counted races.
6. Each county chairman of a political party that is entitled to continued representation on the state ballot or the chairman's designee shall select by lot the individual races to be hand counted pursuant to this section.
7. The county chairman of each political party shall designate and provide the number of election board members as designated by the county officer in charge of elections who shall perform the hand count under the supervision of the county officer in charge of elections. For each precinct
that is to be audited, the county chairmen shall designate at least two board workers who are registered members of any or no political party to assist with the audit. Any qualified elector from this state may be a board worker without regard to party designation. The county election officer shall provide for compensation for those board workers, not to include travel, meal or lodging expenses. If there are less than two persons for each audited precinct available to participate on behalf of each recognized political party, the recorder or officer in charge of elections, with the approval of at least two county party chairpersons in the county in which the shortfall occurs, shall substitute additional individual electors who are provided by any political party from anywhere in the state without regard to party designation to conduct the hand count. A county party chairman shall approve only those substitute electors who are provided by the county chairman's political party. The political parties shall provide to the recorder or officer in charge of elections in writing the names of those persons intending to participate in the hand count at the audited precincts not later than 5:00 p.m. on the Tuesday preceding the election. If the total number of board workers provided by all parties is less than four times the number of precincts to be audited, the recorder or officer in charge of elections shall notify the parties of the shortage by 9:00 a.m. on the Wednesday preceding the election. The hand count shall not proceed unless the political parties provide the recorder or officer in charge of elections, in writing, a sufficient number of persons by 5:00 p.m. on the Thursday preceding the election and a sufficient number of persons, pursuant to section 16-602, subsection $C$, THIS paragraph 7 , arrive to perform the hand count. The recorder or officer in charge of elections may prohibit persons from participating in the hand count if they are taking actions to disrupt the count or are unable to perform the duties as assigned. For the hand count to proceed, no more than seventy-five per cent of the persons performing the hand count shall be from the same political party.
8. If a political party is not represented by a designated chairperson within a county, then the state chairperson for that political party, or a person designated by the state chairperson, may perform the actions required by the county chairperson as specified in this section.
D. If the randomly selected races result in a difference in any race that is less than the designated margin when compared to the electronic tabulation of those same ballots, the results of the electronic tabulation constitute the official count for that race. If the randomly selected races result in a difference in any race that is equal to or greater than the designated margin when compared to the electronic tabulation of those same ballots, a second hand count of those same ballots and races shall be performed. If the second hand count results in a difference in any race that is less than the designated margin when compared to the electronic tabulation for those same ballots, the electronic tabulation constitutes the official
count for that race. If the second hand count results in a difference in any race that is equal to or greater than the designated margin when compared to the electronic tabulation for those same ballots, the hand count shall be expanded to include a total of twice the original number of randomly selected precincts. THE EXPANDED HAND COUNT SHALL INCLUDE THE BALLOTS FROM THE ORIGINAL HAND COUNT TOGETHER WITH THE BALLOTS FROM THE ADDITIONAL PRECINCTS. Those additional precincts shall be selected by lot without the use of a computer.
E. In any expanded count of randomly selected precincts, if the randomly selected precinct hand counts result in a difference in any race that is equal to or greater than the designated margin when compared to the electronic tabulation of those same ballots, the final hand count shall be extended to include the entire jurisdiction for that race. If the jurisdictional boundary for that race would include any portion of more than one county, the final hand count shall not be extended into the precincts of that race that are outside of the county that is conducting the expanded hand count. If the expanded hand count results in a difference in that race that is less than the designated margin when compared to the electronic tabulation of those same ballots, the electronic tabulation constitutes the official count for that race.
F. If a final hand count is performed for an entire jurisdiction for a race, the final hand count shall be repeated for that race until a hand count for that race for the entire jurisdiction results in a count that is identical to one other hand count for that race for the entire jurisdiction and that hand count constitutes the official count for that race.
G. After DURING the electronic tabulation of early ballots and at one or more times selected by the chairman of the political parties entitled to continued representation on the ballot or the chairman's designee, the chairmen or the chairmen's designees shall randomly select one or more batches of early ballots that have been TO BE tabulated to include at least one batch from each machine used for tabulating early ballots and those ballots shall be securely sequestered by the county recorder or officer in charge of elections along with their unofficial tally reports for a postelection manual audit. The chairmen or the chairmen's designees shall randomly select from those sequestered early ballots a number equal to one TWO per cent of the total number of early ballots cast or five TEN thousand early ballots, whichever is less. From those randomly selected early ballots, the county officer in charge of elections shall conduct a manual audit of the same races that are being hand counted pursuant to subsection $C$ of this section. If the manual audit of the early ballots results in a difference in any race that is equal to or greater than the designated margin when compared to the electronically tabulated results for those same early ballots, the manual audit shall be repeated for those same early ballots. If the second manual audit results in a difference in that race that is equal to
or greater than the designated margin when compared to the electronically tabulated results for those same early ballots, the manual audit shall be expanded only for that race to a number of additional early ballots equal to one per cent of the total carly ballots cast or an additional five thousand ballots, whichever is less OR GREATER THAN THE NUMBER USED IN THE FIRST HAND COUNT, to be randomly selected from the batch or batches of sequestered early ballots. THE EXPANDED AUDIT SHALL INCLUDE THE BALLOTS USED IN THE ORIGINAL HAND COUNT TOGETHER WITH THE ADDITIONAL BALLOTS. If the expanded early ballot manual audit results in a difference for that race that is equal to or greater than the designated margin, when compared to any of the carlier manual counts for that race, the manual counts shall be repeated for that race until a manual count results in a difference in that race that is less than the designated margin. If at any point in the manual audit of carly ballots the difference between any manual count of early ballots is less than the designated margin when compared to the electronic tabulation of those ballots, the electronic tabulation shall be included in the canvass and no further manual audit of the early ballots shall be conducted THE FINAL HAND COUNT SHALL BE EXTENDED TO INCLUDE THE ENTIRE JURISDICTION FOR THAT RACE. IF THE JURISDICTIONAL BOUNDARY FOR THAT RACE WOULD INCLUDE ANY PORTION OF MORE THAN ONE COUNTY, THE FINAL HAND COUNT SHALL NOT BE EXTENDED INTO THE PRECINCTS OF THAT RACE THAT ARE OUTSIDE OF THE COUNTY THAT IS CONDUCTING THE EXPANDED HAND COUNT. IF THE EXPANDED HAND COUNT RESULTS IN A DIFFERENCE IN THAT RACE THAT IS LESS THAN THE DESIGNATED MARGIN WHEN COMPARED TO THE ELECTRONIC TABULATION OF THOSE SAME BALLOTS, THE ELECTRONIC TABULATION CONSTITUTES THE OFFICIAL COUNT FOR THAT RACE.
H. During any hand count of early ballots, the county officer in charge of elections and election board workers shall attempt to determine the intent of the voter in casting the ballot.
I. Notwithstanding any other law, the county officer in charge of elections shall retain custody of the ballots for purposes of performing any required hand counts and the officer shall provide for security for those ballots.
J. The hand counts prescribed by this section shall begin within twenty-four hours after the closing of the polls and shall be completed before the canvassing of the election for that county. The results of those hand counts shall be provided to the secretary of state, who shall make those results publicly available on the secretary of state's web site.
K. For any county in which a hand count has been expanded to all precincts in the jurisdiction, the secretary of state shall make available the escrowed source code for that county to the superior court. The superior court shall appoint a special master to review the computer software. The special master shall have expertise in software engineering and shall not be affiliated with an election software vendor nor with a candidate and shall sign and be bound by a nondisclosure agreement regarding the source code
itself, and shall issue a public report to the court and to the secretary of state regarding the special master's findings on the reasons for the discrepancies. The secretary of state shall consider the reports for purposes of reviewing the certification of that equipment and software for use in this state.
L. The vote count verification committee is established in the office of the secretary of state and all of the following apply:
9. At least thirty days before the 2006 primary election, the secretary of state shall appoint seven persons to the committee, no more than three of whom are members of the same political party.
10. Members of the committee shall have expertise in any two or more of the areas of advanced mathematics, statistics, random selection methods, systems operations or voting systems.
11. A person is not eligible to be a committee member if that person has been affiliated with or received any income in the preceding five years from any person or entity that provides election equipment or services in this state.
12. The vote count verification committee shall meet and establish one or more designated margins to be used in reviewing the hand counting of votes as required pursuant to this section. The committee shall review and consider revising the designated margins every two years for use in the applicable elections. The committee shall provide the designated margins to the secretary of state at least ten days before the primary election and at least ten days before the general election, and the secretary of state shall make that information publicly available on the secretary of state's web site.
13. Members of the vote count verification committee are not eligible to receive compensation but are eligible for reimbursement of expenses pursuant to title 38 , chapter 4 , article 2. The committee is a public body and its meetings are subject to title 38 , chapter 3 , article 3.1 and its reports and records are subject to title 39 , chapter 1.

Sec. 3. Section 16-663, Arizona Revised Statutes, is amended to read:
16-663. Recount of votes; method
A. The superior court to which the facts requiring a recount are certified shall forthwith make and enter an order requiring a recount of the votes cast for such office, measure or proposal. The recount shall be conducted in accordance with the laws pertaining to contests of elections.
B. When the court orders a recount of votes which were cast and tabulated on electronic voting equipment, such recount shall be pursuant to section 16-664. On completion of the recount, and for legislative, statewide and federal candidate races only, the county chairmen of the political parties entitled to continued representation on the ballot or the chairman's designee shall select at random without the use of a computer five per cent of the precincts for the recounted race for a hand count. , and EARLY BALLOTS
1 FOR THE RECOUNTED RACE SHALL BE INCLUDED IN EACH SELECTED PRECINCT HAND 2 COUNT. THE TOTALS FOR EARLY BALLOTS AND PRECINCT BALLOTS SHALL BE OBTAINED 3 SEPARATELY BUT SHALL BE COMBINED WHEN CALCULATING THE FINAL DIFFERENCE 4 BETWEEN THE ELECTRONIC TABULATION AND THE HAND COUNT FOR EACH PRECINCT. If 5 the results of that hand count when compared to the electronic tabulation of 6 that same race are less than the designated margins calculated pursuant to 7 section 16-602, the recount is complete and the electronic tabulation is the 8 official result. If the hand count results in a difference that is equal to 9 or greater than the designated margin for that race, the procedure 10 established in section 16-602, subsections D, E, F and G applies.

