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# OHIO LEGISLATIVE SERVICE COMMISSION

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S.B. 52  
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## Final Analysis

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**Version:** As Passed by the General Assembly

**Primary Sponsor:** Sen. Gavarone

**Effective date:** January 24, 2020; appropriations effective October 25, 2019

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UPDATED VERSION\*

## SUMMARY

### Ohio Cyber Reserve

- Requires the Governor to organize and maintain state civilian cyber security reserve forces, known as the Ohio Cyber Reserve, to protect government, critical infrastructure, businesses, and citizens from cyber attacks.
- Makes the Reserve part of, and Reserve members civilian volunteers for, the Ohio organized militia under the Adjutant General's department.
- Permits the Reserve to become a civilian component of the Ohio National Guard, but does not authorize the Reserve to be called into national military service.
- Prescribes eligibility requirements for Reserve members.
- Treats Reserve members on state active duty similarly to other members of the Ohio organized militia.
- Requires the Adjutant General to establish Reserve members' rates of pay in state active duty and requires Reserve members to serve in unpaid volunteer status while training.
- Specifies procedures for the Governor to remove Reserve members.
- Allows the Governor to adopt rules governing the Reserve, and requires a copy of the rules to be publicly available in the Adjutant General's office.

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\* This version updates the effective date.

- Permits the Governor, for Reserve use, to requisition equipment from the U.S. Department of Defense and make available state armory facilities, equipment, and other premises and property.
- Specifies that members of the Reserve are entitled to the same liability protections as members of the Ohio organized militia.
- Appropriates \$100,000 for FY 2020 and \$550,000 for FY 2021 to the Adjutant General to operate the Reserve.

### **Eligibility for organized and unorganized militias**

- Allows a person who is permanently handicapped or who is not between the ages of 17 and 67 to serve in the Ohio organized militia if the person meets the eligibility requirements for the particular branch in which the person serves.
- Permits the Adjutant General to excuse a person from duty in the organized or unorganized militia if the person is unable to serve because of a disability.

### **Homeland Security Advisory Council**

- Makes the Secretary of State a member of the Homeland Security Advisory Council in the Department of Public Safety.

### **Secretary of State – information security officer**

- Requires the Secretary of State to appoint a chief information security officer to advise the Secretary on matters of information security.

### **Audits of election results**

- Requires a board of elections to audit the official results of every general election and of every primary election held in even-numbered years.
- Provides the minimum requirements and a timeline for the audit, and requires the Secretary of State to prescribe certain procedures for the audit.
- Specifies that the audit must use a risk-limiting audit protocol, a percentage-based audit protocol, or another protocol approved by the Secretary, and allows the Secretary to either choose the protocol the boards must use or permit the boards to choose a protocol.
- Requires the audit to be open to observers appointed under the Election Law.
- Appropriates \$75,000 for each of FYs 2020 and 2021 to the Secretary to reimburse boards for costs incurred to conduct the audit.

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## DETAILED ANALYSIS

### Ohio Cyber Reserve

#### Generally

The act requires the Governor to organize and maintain Ohio civilian cyber security reserve forces, known as the Ohio Cyber Reserve. The Reserve must be able to be expanded and trained to educate and protect state, county, and local government entities; critical infrastructure, including election systems; businesses; and Ohio citizens from cyber attacks. The Governor must expand the Reserve as needed in the case of an emergency proclaimed by the Governor or caused by illicit actors or imminent danger.

The Reserve is to be part of the Ohio organized militia under the Adjutant General's department. The Ohio organized militia generally consists of the Ohio National Guard, the Ohio Naval Militia, and the Ohio Military Reserve. Members of the Ohio Cyber Reserve are civilian volunteers of the Ohio organized militia.<sup>1</sup> The act permits the Reserve to become a civilian component of the Ohio National Guard, but it does not authorize the Reserve to be called or ordered into the military service of the United States.<sup>2</sup>

#### Membership

##### Admittance

The act requires an Ohio Cyber Reserve member to be a U.S. national or a lawful permanent resident, and prohibits any person who has been expelled or dishonorably discharged from the armed forces from being accepted into the Reserve. Applicants are subject to an appropriate background check, in accordance with rules adopted by the Governor and Adjutant General, before admittance into the Reserve.

The act also specifies that no person may be disqualified from acceptance into the Reserve on the basis that the person is a state or local government employee or an employee or proprietor of a private entity that conducts business with Ohio or a political subdivision.<sup>3</sup>

##### State active duty

Under the act, the Governor, as Commander-in-Chief of the Ohio organized militia, may order individuals or units of the Ohio Cyber Reserve to state active duty to protect state, county, and local government entities and critical infrastructure, including election systems, or for training as the Governor determines necessary. Upon the request of a business or citizen, the Governor also may order individuals or units of the Reserve to state active duty to protect that business or citizen.

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<sup>1</sup> R.C. 5922.01, 5923.01(A) and (B), 5923.03(D), and 5924.01.

<sup>2</sup> R.C. 5922.04.

<sup>3</sup> R.C. 5922.05.

Under state active duty, Reserve members function as civilian members of the Ohio organized militia and have the protections afforded by the federal Servicemembers Civil Relief Act and the federal Uniformed Services Employment and Reemployment Rights Act.<sup>4</sup> The act requires that whenever the Reserve is ordered out for active service, the Ohio Code of Military Justice is in full force with respect to those forces.<sup>5</sup>

### **Rates of pay**

The Adjutant General must establish the rates of pay for Ohio Cyber Reserve members while on state active duty by rule. The Adjutant General can revise those rates in the same manner as pay rates for other Ohio organized militia members. The pay rates must be commensurate with those specified in pay schedules established by the Director of Administrative Services for state information technology employees who have comparable training, experience, and professional qualifications. While performing any drill or training, Reserve members must serve in an unpaid volunteer status.<sup>6</sup>

### **Removal or resignation**

The Governor may accept the resignation of any Ohio Cyber Reserve member at any time. Additionally, members serve at the pleasure of the Governor and may be removed from the Reserve in accordance with rules adopted by the Governor. The Governor may require reimbursement for training, equipment, and uniforms if a member does not serve the full term of the membership agreement and the inability to serve out the term was not due to disability or a similar disabling medical condition.<sup>7</sup>

### **Adoption of rules**

The act permits the Governor to adopt rules consistent with the act's provisions. A copy of the rules must be available to the public in the Adjutant General's office.<sup>8</sup>

### **Equipment requisition**

Under the act, the Governor may requisition equipment from the U.S. Department of Defense for Reserve use. Additionally, the Governor may make available for Reserve use state armory facilities, equipment, and other state premises and property.<sup>9</sup>

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<sup>4</sup> R.C. 5922.01 and 5922.08.

<sup>5</sup> R.C. 5922.06 and 5924.01.

<sup>6</sup> R.C. 5922.01 and 5923.12.

<sup>7</sup> R.C. 5922.07.

<sup>8</sup> R.C. 5922.02.

<sup>9</sup> R.C. 5922.03.

## **Liability protection**

The act specifies that Ohio Cyber Reserve members are not liable for any negligent acts performed within the scope of their duties. Under continuing law, Ohio organized militia members are entitled to the same liability protection.<sup>10</sup>

## **Appropriation**

The act appropriates \$100,000 for FY 2020 and \$550,000 for FY 2021 to the Adjutant General to operate the Ohio Cyber Reserve.<sup>11</sup>

## **Eligibility for organized and unorganized militias**

The act allows a person who is permanently handicapped or who is not between the ages of 17 and 67 to serve in the Ohio organized militia (the Ohio National Guard, the Ohio Naval Militia, the Ohio Military Reserve, or the Ohio Cyber Reserve) if the person meets the eligibility requirements for the particular branch in which the person serves. Eligibility to serve in those branches is determined under Ohio laws and administrative rules, which the act does not change, and under U.S. military regulations. As a result, for example, the act allows the Governor to adopt rules permitting persons with disabilities or persons older than 67 to serve in the Ohio Cyber Reserve.

Former law automatically excluded from service in the organized or unorganized militia any person who is permanently handicapped, as defined in the Civil Rights Law, and any person who is not between the ages of 17 and 67. (The Civil Rights Law no longer defines or uses the term “permanently handicapped.”) Instead, the act permits the Adjutant General to excuse a person from duty in the organized or unorganized militia if the person is unable to serve because of a disability, as that term is defined in the Civil Rights Law. And, a person who is not between the ages of 17 and 67 is automatically excluded from service only in the unorganized militia.

Under continuing law, the unorganized militia consists of all citizens who are not members of the organized militia, are between the ages of 17 and 67, and are not exempt from service on the basis of the person’s office or employment, being a conscientious objector, or having a disability. The Governor may call the unorganized militia to state active duty to perform the same functions as the organized militia, provided that the Governor must call the organized militia to duty first.<sup>12</sup>

## **Homeland Security Advisory Council**

The act makes the Secretary of State a member of the Homeland Security Advisory Council. Under ongoing law, the Director of Public Safety appoints all members of the Council. The Council is responsible for advising the Director on homeland security, including funding

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<sup>10</sup> R.C. 5923.37(A).

<sup>11</sup> Sections 3 and 4 of the act.

<sup>12</sup> R.C. 5923.01 and 5923.02. See also R.C. 5923.21, not in the act.

efforts. The Director must appoint state and local government officials to the Council who have homeland security or emergency management responsibilities and who represent first responders. Members serve without compensation.<sup>13</sup>

## **Secretary of State – information security officer**

Under the act, the Secretary of State must appoint a chief information security officer to advise the Secretary on matters of information security and to perform other duties assigned by the Secretary.<sup>14</sup>

## **Audits of election results**

### **Audit procedure**

The act requires a board of elections to audit the official results of every general election and of every primary election held in even-numbered years no earlier than six days after the results are declared, and to complete the audit by the 21<sup>st</sup> day after they are declared. If a board conducts a recount, it must conduct the audit immediately after it certifies the results of the recount and complete the audit by the 14<sup>th</sup> day after it certifies the results.

Under the act, the Secretary of State must prescribe the procedures for conducting an audit, which must include:

- The board must audit at least three contested races, questions, or issues that appear on the ballot, as directed by the Secretary. If less than three contested races, questions, or issues appear on the ballot, the board must audit every contested race, question, or issue. However, if the board ordered an automatic countywide recount of a race, question, or issue, the recount must be considered an audit for purposes of meeting the three-audit requirement.
- Every ballot included in the canvass of election results must be eligible for audit, including regular ballots cast the day of the election, absent voter's ballots, and provisional ballots.
- The Secretary must either select an audit protocol from the list of approved protocols or allow each board to select a protocol (see "**Audit protocols**," below).

An audit is conducted by hand counting ballots. If the county uses direct recording electronic voting machines (touchscreen machines that electronically record the votes cast), the voter verified paper audit trail produced by the machine is considered the ballot for hand counting purposes.

The act requires the board to certify the audit results to the Secretary within five days of completing it. The Secretary must make the audit results available on the Secretary's official

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<sup>13</sup> R.C. 5502.011.

<sup>14</sup> R.C. 111.09.

website. If the results of a completed audit indicate that the canvass or previously declared official election results must be amended, the board must promptly do so.

The board must give public notice of the times and places, in accordance with the Open Meetings Law, for conducting an election audit. Briefly, the Open Meetings Law requires a public body to give at least 24 hours advance notice of each special meeting to all news media that have requested notification. It also requires a public body to promptly prepare, file, and maintain minutes of all meetings and to make those minutes available for public inspection.

The board also must allow observers appointed under the Election Law to observe the audit. Only board members or designated employees are allowed to handle a ballot during the auditing process.

Additionally, the act requires the Secretary, in accordance with directives issued by the Secretary, to reimburse boards for costs incurred to conduct an audit.<sup>15</sup>

## **Audit protocols**

The act requires the Secretary either to select an audit protocol or to allow the boards to select one, provided that the protocol must be a risk-limiting audit protocol, a percentage-based audit protocol, or another protocol approved by the Secretary.

### **Risk-limiting audit protocol**

In a risk-limiting audit, unlike in a percentage-based audit, the actual number of ballots to be hand counted (audited) in a particular race is calculated using a statistical formula and varies based on the margin of victory in the initial results, how many counting errors are discovered during the course of the audit, and the risk limit set for the audit. The act refers to this protocol as using statistical methods to limit to acceptable levels the risk of certifying an incorrect outcome for a particular race, question, or issue.

The risk limit, expressed as a percentage, represents the chance that, if the initial results declared the wrong winner in a race, the audit will not detect that error. For example, with a 10% risk limit, if the initial results indicated the wrong winner, there is at most a 10% chance that the audit will not catch the mistake and at least a 90% chance that the audit will correct the error. The lower the risk limit an audit uses, the more ballots must be hand counted. If the risk limit is 0%, meaning that there is no risk of an incorrect election result going uncorrected by the audit, the election officials must hand count every ballot cast in the race. The act requires the Secretary to determine the risk limit to be used.

The protocol requires a bipartisan team of election officials to physically examine and hand count randomly sampled ballots. They must continue to hand count randomly sampled ballots until the results of the hand count provide sufficiently strong evidence (based on the risk limit) that a hand count of all of the ballots would confirm the declared election result, or until all of the ballots have been counted, whichever occurs first.

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<sup>15</sup> R.C. 3505.21 and 3505.331. See also R.C. 121.22 and 3515.011, not in the act.

If the race to be audited was decided by a large margin and the first several ballots hand counted are consistent with the initial results recorded by the voting equipment, the number of ballots the election officials must hand count might be significantly smaller than in a percentage-based audit. Conversely, if the race was decided by a small margin or the initial hand counting reveals some errors, the election officials might be required to hand count more ballots than they would in a percentage-based audit, and with a small enough margin or enough errors discovered, the officials might even be required to hand count all ballots cast.<sup>16</sup>

### **Percentage-based audit protocol**

A percentage-based audit protocol requires a bipartisan team of election officials to physically examine and hand count a number of randomly sampled ballots equal to a given percentage of the ballots cast in the county. After the officials complete the audit, the board must calculate the accuracy rate for each audited race, question, or issue. For example, if 1,000 ballots were cast in a race, and the election officials must hand count 5% of them, 50 ballots would be hand counted. If the officials discovered that the voting equipment incorrectly counted five of those ballots, the accuracy rate would be 90% (100% - (5/50)).

If any accuracy rate is less than the acceptable accuracy rate provided by the Secretary, the board must escalate the audit by requiring bipartisan teams of election officials to physically examine and hand count a second set of randomly sampled ballots equal to a given percentage of the ballots cast in the county. The second set should not include any ballots from the first set of audited ballots. After the second set is audited, the board must calculate the combined accuracy rate for both audited sets. Continuing the above example, if the hand count of a second set of 50 ballots revealed three inaccurately counted ballots, the accuracy rate for the second set would be 94% (100% - (3/50)), and the combined accuracy rate would be 92% (100% - (8/100)).

If the accuracy rate, after a second, escalated audit, is less than the acceptable combined accuracy rate provided by the Secretary, the Secretary may require the board to order bipartisan teams of election officials to physically examine and hand count all ballots cast for that race, question, or issue.<sup>17</sup>

### **Appropriation**

The act appropriates up to \$75,000 for each of FYs 2020 and 2021 to the Secretary to reimburse boards for costs incurred to conduct the audits.<sup>18</sup>

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<sup>16</sup> R.C. 3505.331(B)(3)(a). See also Mark Lindeman & Philip B. Stark, *A Gentle Introduction to Risk-Limiting Audits*, IEEE Security & Privacy, September-October 2012, at 42, prepublication copy available at [stat.berkeley.edu/~stark/Preprints/gentle12.pdf](http://stat.berkeley.edu/~stark/Preprints/gentle12.pdf).

<sup>17</sup> R.C. 3505.331(B)(3)(b) and (D)(2).

<sup>18</sup> Sections 3 and 4 of the act.



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## HISTORY

Action	Date
Introduced	02-13-19
Reported, S. Gov't Oversight & Reform	04-02-19
Passed Senate (31-0)	04-03-19
Reported, H. Transportation & Public Safety	05-28-19
Re-referred to H. Finance	06-05-19
Reported, H. Finance	06-19-19
Passed House (92-0)	10-02-19
Senate concurred in House amendments (32-0)	10-09-19

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