

Second Regular Session
Seventy-third General Assembly
STATE OF COLORADO

INTRODUCED

LLS NO. 22-0555.01 Pierce Lively x2059

HOUSE BILL 22-1085

HOUSE SPONSORSHIP

Hanks,

SENATE SPONSORSHIP

(None),

House Committees

State, Civic, Military, & Veterans Affairs

Senate Committees

A BILL FOR AN ACT

101 CONCERNING PAPER BALLOT FRAUD COUNTERMEASURES.

Bill Summary

(Note: This summary applies to this bill as introduced and does not reflect any amendments that may be subsequently adopted. If this bill passes third reading in the house of introduction, a bill summary that applies to the reengrossed version of this bill will be available at <http://leg.colorado.gov>.)

The bill requires that paper used for paper ballots have certain fraud countermeasures and that paper ballot records be provided by vendors that have one or more specified accreditations in any primary, general, coordinated statewide, or statewide recall election.

The bill also requires the general assembly to annually appropriate money from the general fund to the department of state as necessary for the department of state to pay county clerk and recorders for the costs related to complying with the requirements of the bill.

Shading denotes HOUSE amendment. Double underlining denotes SENATE amendment.
Capital letters or bold & italic numbers indicate new material to be added to existing statute.
Dashes through the words indicate deletions from existing statute.

1 *Be it enacted by the General Assembly of the State of Colorado:*

2 **SECTION 1.** In Colorado Revised Statutes, **add** 1-5-414 as
3 follows:

4 **1-5-414. Paper ballot fraud countermeasures - vendors -**
5 **general fund appropriation.** (1) COMMENCING WITH THE GENERAL
6 ELECTION HELD IN NOVEMBER 2022, PAPER BALLOTS USED IN ANY
7 PRIMARY, GENERAL, COORDINATED STATEWIDE, OR STATEWIDE RECALL
8 ELECTION MUST INCLUDE THE FOLLOWING BALLOT FRAUD
9 COUNTERMEASURES:

10 (a) UNIQUE CONTROLLED-SUPPLY WATERMARKED CLEARING BANK
11 SPECIFICATION ONE SECURITY PAPER;

12 (b) SECURE HOLOGRAPHIC FOIL WITH A TOTAL SURFACE AREA OF
13 BETWEEN TEN SQUARE MILLIMETERS AND TWENTY SQUARE MILLIMETERS
14 AND WITH A PROPRIETARY ORIGINAL IMAGE IN VISIBLE AND
15 MULTICOLORED INVISIBLE ULTRAVIOLET INKS. THE VISIBLE OVERPRINT
16 MUST BE TRANSLUCENT SO THAT THE HOLOGRAM IMAGE STRIKES
17 THROUGH THE PRINTED IMAGE WHEN VIEWED AT DIFFERENT ANGLES AND
18 MUST BE CURED IN SUCH A WAY THAT ANY TAMPERING OF THE IMAGE
19 CAUSES VISIBLE DAMAGE TO THE HOLOGRAM. THE HOLOGRAPHIC FOIL
20 DESIGN AND ORIGINATION ARTWORK MUST BE EXCLUSIVELY OWNED AND
21 CONTROLLED BY THE SECURITY PRINTER.

22 (c) BRANDED OVERPRINT OF ANY HOLOGRAM THAT PERSONALIZES
23 THE HOLOGRAM WITH A CUSTOMER LOGO;

24 (d) CUSTOM COMPLEX SECURITY BACKGROUND DESIGNS WITH
25 BANKNOTE-LEVEL SECURITY;

26 (e) SECURE VARIABLE DIGITAL INFILL;

1 (f) THERMOCHROMIC, TRI-THERMOCHROMIC, PHOTOCROMIC, OR
2 OPTICALLY VARIABLE INKS;

3 (g) STEALTH NUMBERING IN ULTRAVIOLET, INFRARED, OR
4 TAGGANT INKS;

5 (h) TWO-COLOR RAINBOW PRINT INVISIBLE ULTRAVIOLET
6 NUMISMATIC DESIGNS WITH A FINE LINE SECURITY RELIEF DESIGN THAT
7 FOLLOWS THE PRIMARY IMAGE'S DESIGN EXACTLY AND WITH A MINIMUM
8 LINE WEIGHT OF FOUR HUNDRED AND TWENTY-FOUR TEN THOUSANDTHS
9 OF A MILLIMETER;

10 (i) UNIQUE FORENSIC FRAUD DETECTION TECHNOLOGY THAT IS
11 BUILT INTO SECURITY INKS;

12 (j) INVISIBLE ULTRAVIOLET MICROTTEXT WITH AN ULTRAVIOLET
13 IMAGE MINIMUM HEIGHT OF THREE TENTHS OF A MILLIMETER AND
14 MAXIMUM HEIGHT OF ONE-HALF OF A MILLIMETER;

15 (k) RASTER IMAGING PRINTED ON SEVENTY-FIVE PERCENT OF THE
16 DOCUMENT FACE IN A MINIMUM TWO-COLOR INVISIBLE ULTRAVIOLET INK
17 WITH A MINIMUM LINE WEIGHT OF TWO HUNDRED AND FORTY-TWO TEN
18 THOUSANDTHS OF A MILLIMETER AND A MAXIMUM LINE WEIGHT OF
19 EIGHTY-FOUR THOUSANDTHS OF A MILLIMETER;

20 (l) THREE-COLOR INVISIBLE ULTRAVIOLET GUILLOCHE WITH AN
21 ANTI-COPY FEATURE THAT IS A CUSTOM GEOMETRIC DESIGN SPECIFIC TO
22 THE DOCUMENT AND WITH A HIGH LEVEL OF SECURE FINE LINE DETAIL
23 CONSISTING OF MULTIPLE LINE WEIGHTS WITH A MINIMUM LINE WEIGHT OF
24 TWO HUNDRED AND FORTY-TWO THOUSANDTHS OF A MILLIMETER;

25 (m) VISIBLE COLORED OVERT INK WITH AN EMBEDDED COVERT,
26 NEAR-INFRARED, MACHINE-READABLE TAGGANT THAT IS CAPABLE OF
27 DETECTION THROUGH PROPRIETARY INFRARED WAVELENGTH LIGHT

1 SOURCE EXCITATION AND RELATED INFRARED WAVELENGTH EMISSION
2 CHARACTERISTICS THAT CONFIRM AUTHENTICITY THROUGH A COMPLEX
3 TEMPORAL MEASUREMENT WHEN READ BY A HAND-HELD, RECHARGEABLE
4 BATTERY-OPERATED PROPRIETARY DETECTOR;

5 (n) A MOLECULAR LEVEL, FORENSIC-COVERT SECURITY FEATURE
6 INCLUDED IN THE INFRARED TAGGED INK PRESCRIBED IN SUBSECTION
7 (1)(m) OF THIS SECTION. THIS PROPRIETARY MOLECULAR MARKER MUST
8 BE AUTHENTICATED BY LABORATORY ANALYSIS USING GAS
9 CHROMATOGRAPHY MASS SPECTROMETRY AND THE CONCENTRATION IN
10 THE RELATED INK CANNOT BE MORE THAN ONE PART PER MILLION.

11 (o) MICROPRINTING, A SECURITY RELIEF DESIGN TECHNIQUE THAT
12 REQUIRES A BANKNOTE GRAPHICS SOFTWARE. THE DESIGN MUST PROTECT
13 INFILL AREAS FROM FRAUDULENT ALTERATIONS.

14 (p) MULTICOLORED INVISIBLE PRIMARY FLUORESCENT ELEMENTS
15 THAT ARE PRINTED IN REGISTER TO CREATE A RAINBOW EFFECT
16 BACKGROUND. THE IMAGE MUST INCORPORATE MULTIPLE SECURITY
17 GRAPHIC TECHNIQUES AND MUST BE GENERATED USING
18 ANTI-COUNTERFEIT DESIGN SOFTWARE THAT IS COMMERCIALY
19 AVAILABLE ONLY FOR APPROVED AND ACCREDITED PRINTERS.

20 (q) SERIALIZED BLACK QUICK RESPONSE CODE, OTHERWISE KNOWN
21 AS A "QR CODE", PRINTED ON THE TOP LEFT CORNER AND BOTTOM RIGHT
22 CORNER THAT CAN BE READ BY NATIVE QUICK RESPONSE FUNCTIONS OF
23 IOS AND ANDROID SMARTPHONES, REDIRECTS THE VOTER TO A
24 WEB-BASED VOTER INFORMATION PAGE, AND TRACKS THE VOTER'S BALLOT
25 AS IT IS PROCESSED;

26 (r) PAPER THAT IS EIGHT AND ONE-HALF INCHES WIDE BY NINETEEN
27 TO TWENTY-TWO INCHES LONG AND THAT WEIGHS EIGHTY GRAMS PER

1 SQUARE METER; AND

2 (s) A PAPER RECEIPT FOR THE VOTER THAT IS A PERFORATED
3 PORTION OF THE BALLOT SUITABLE FOR THE VOTER TO REMOVE FROM THE
4 BALLOT AFTER COMPLETING THE BALLOT AND INCLUDES THE LOT NUMBER
5 AND SEQUENCE NUMBER OF THE SHEET OF PAPER ON WHICH THE BALLOT
6 IS PRINTED AND A SERIALIZED BLACK QUICK RESPONSE CODE THAT CAN BE
7 READ BY NATIVE QUICK RESPONSE FUNCTIONS OF IOS AND ANDROID
8 SMARTPHONES, REDIRECTS THE VOTER TO A WEB-BASED VOTER
9 INFORMATION PAGE, AND TRACKS THE VOTER'S BALLOT AS IT IS
10 PROCESSED.

11 (2) COMMENCING WITH THE GENERAL ELECTION HELD IN
12 NOVEMBER 2022, PAPER BALLOTS USED IN ANY GENERAL OR RECALL
13 ELECTION MUST BE PROVIDED BY VENDORS WHO ARE ACCREDITED
14 PURSUANT TO ISO/IEC 27001, ISO/IEC 17025, ISO/IEC 45001, ISO/IEC
15 14001, ISO/IEC 14298, OR ISO/IEC 9001:2015 OF THE JOINT TECHNICAL
16 COMMITTEE OF THE INTERNATIONAL ORGANIZATION FOR
17 STANDARDIZATION AND THE INTERNATIONAL ELECTROTECHNICAL
18 COMMISSION.

19 (3) THE GENERAL ASSEMBLY SHALL ANNUALLY APPROPRIATE
20 MONEY FROM THE GENERAL FUND TO THE DEPARTMENT OF STATE AS
21 NECESSARY FOR THE DEPARTMENT OF STATE TO PAY COUNTY CLERK AND
22 RECORDERS FOR THE COSTS RELATED TO COMPLYING WITH THE
23 REQUIREMENTS OF THIS SECTION.

24 **SECTION 2. Safety clause.** The general assembly hereby finds,
25 determines, and declares that this act is necessary for the immediate
26 preservation of the public peace, health, or safety.