

REFERENCE TITLE: ballot fraud countermeasures; paper; ink

State of Arizona
House of Representatives
Fifty-fifth Legislature
Second Regular Session
2022

HB 2041

Introduced by
Representatives Biasiucci: Blackman, Chaplik, Finchem, Nguyen, Senator
Borrelli

AN ACT

REPEALING SECTION 16-504, ARIZONA REVISED STATUTES; AMENDING TITLE 16,
CHAPTER 4, ARTICLE 6, ARIZONA REVISED STATUTES, BY ADDING A NEW SECTION
16-504; APPROPRIATING MONIES; RELATING TO THE CONDUCT OF ELECTIONS.

(TEXT OF BILL BEGINS ON NEXT PAGE)

1 Be it enacted by the Legislature of the State of Arizona:

2 Section 1. Repeal

3 Section 16-504, Arizona Revised Statutes, is repealed.

4 Sec. 2. Title 16, chapter 4, article 6, Arizona Revised Statutes,
5 is amended by adding a new section 16-504, to read:

6 16-504. Antifraud ballot paper; vendor certification; fraud
7 countermeasures; applicability

8 A. NOTWITHSTANDING ANY OTHER STATUTE, ANY VENDOR THAT PROVIDES
9 FRAUD COUNTERMEASURES THAT ARE CONTAINED IN AND ON THE PAPER USED FOR
10 BALLOTS SHALL BE ISO 27001 CERTIFIED, ISO 17025 CERTIFIED, ISO 45001
11 CERTIFIED, ISO 14001 CERTIFIED, ISO 14298 CERTIFIED OR ISO 9001:2015
12 CERTIFIED. BALLOT FRAUD COUNTERMEASURES SHALL INCLUDE THE USE OF ALL OF
13 THE FOLLOWING:

14 1. UNIQUE, CONTROLLED-SUPPLY WATERMARKED CLEARING BANK
15 SPECIFICATION 1 SECURITY PAPER.

16 2. SECURE HOLOGRAPHIC FOIL THAT IS A MINIMUM OF TEN SQUARE
17 MILLIMETERS AND A MAXIMUM OF TWENTY SQUARE MILLIMETERS WITH A PROPRIETARY
18 ORIGINAL IMAGE IN VISIBLE AND MULTIPLE-COLOR INVISIBLE ULTRAVIOLET INKS.
19 THE VISIBLE OVERPRINT MUST BE TRANSLUCENT SO THAT THE HOLOGRAM IMAGE
20 STRIKES THROUGH THE PRINTED IMAGE WHEN VIEWED AT DIFFERENT ANGLES AND MUST
21 BE CURED IN SUCH A WAY THAT ANY TAMPERING OF THE IMAGE CAUSES VISIBLE
22 DAMAGE TO THE HOLOGRAM. THE HOLOGRAPHIC FOIL DESIGN AND ORIGATION
23 ARTWORK MUST BE EXCLUSIVELY OWNED AND CONTROLLED BY THE SECURITY PRINTER.

24 3. BRANDED OVERPRINT OF ANY HOLOGRAM THAT PERSONALIZES THE HOLOGRAM
25 WITH CUSTOMER LOGO.

26 4. CUSTOM COMPLEX SECURITY BACKGROUND DESIGNS WITH BANKNOTE-LEVEL
27 SECURITY.

28 5. SECURE VARIABLE DIGITAL INFILL.

29 6. THERMOCHROMIC, TRI-THERMOCHROMIC, PHOTOCHROMIC OR OPTICALLY
30 VARIABLE INKS.

31 7. STEALTH NUMBERING IN ULTRAVIOLET, INFRARED OR TAGGANT INKS.

32 8. TWO-COLOR RAINBOW PRINT INVISIBLE ULTRAVIOLET NUMISMATIC DESIGNS
33 WITH FINE LINE SECURITY RELIEF DESIGN THAT FOLLOWS THE PRIMARY IMAGE'S
34 DESIGN EXACTLY AND WITH A MINIMUM LINE WEIGHT OF 0.0424 MILLIMETERS.

35 9. UNIQUE FORENSIC FRAUD DETECTION TECHNOLOGY THAT IS BUILT INTO
36 SECURITY INKS.

37 10. INVISIBLE ULTRAVIOLET MICROTTEXT WITH AN ULTRAVIOLET IMAGE
38 MINIMUM HEIGHT OF 0.3 MILLIMETERS AND MAXIMUM HEIGHT OF 0.5 MILLIMETERS.

39 11. RASTER IMAGING PRINTED ON SEVENTY-FIVE PERCENT OF THE DOCUMENT
40 FACE IN A MINIMUM TWO-COLOR INVISIBLE ULTRAVIOLET INK WITH A MINIMUM LINE
41 WEIGHT OF 0.0242 MILLIMETERS AND A MAXIMUM LINE WEIGHT OF 0.084
42 MILLIMETERS.

1 12. THREE-COLOR INVISIBLE ULTRAVIOLET GUILLOCHE WITH AN ANTI-COPY
2 FEATURE THAT IS A CUSTOM GEOMETRIC DESIGN SPECIFIC TO THE DOCUMENT AND
3 WITH A HIGH LEVEL OF SECURE FINE LINE DETAIL CONSISTING OF MULTIPLE LINE
4 WEIGHT WITH A MINIMUM LINE WEIGHT OF 0.242 MILLIMETERS.

5 13. VISIBLE COLORED OVERT INK WITH EMBEDDED COVERT, NEAR INFRARED
6 MACHINE-READABLE TAGGANT THAT IS CAPABLE OF DETECTION THROUGH PROPRIETARY
7 INFRARED WAVELENGTH LIGHT SOURCE EXCITATION AND RELATED INFRARED
8 WAVELENGTH EMISSION CHARACTERISTICS THAT CONFIRM AUTHENTICITY THROUGH A
9 COMPLEX TEMPORAL MEASUREMENT WHEN READ BY A HAND-HELD, RECHARGEABLE
10 BATTERY OPERATED PROPRIETARY DETECTOR.

11 14. MOLECULAR LEVEL, FORENSIC-COVERT SECURITY FEATURE INCLUDED IN
12 THE INFRARED TAGGED INK PRESCRIBED IN PARAGRAPH 13 OF THIS SUBSECTION.
13 THIS PROPRIETARY MOLECULAR MARKER MUST BE AUTHENTICATED BY LABORATORY
14 ANALYSIS USING GAS CHROMATOGRAPHY MASS SPECTROMETRY AND THE CONCENTRATION
15 IN THE RELATED INK CANNOT BE MORE THAN ONE PART PER MILLION.

16 15. MICROPRINTING, A SECURITY RELIEF DESIGN TECHNIQUE THAT REQUIRES
17 BANKNOTE GRAPHICS SOFTWARE. THE DESIGN MUST PROTECT INFILL AREAS FROM
18 FRAUDULENT ALTERATIONS.

19 16. MULTICOLOR INVISIBLE PRIMARY FLUORESCENT ELEMENTS THAT ARE
20 PRINTED IN REGISTER TO CREATE A RAINBOW EFFECT BACKGROUND. THE IMAGE MUST
21 INCORPORATE MULTIPLE SECURITY GRAPHIC TECHNIQUES AND MUST BE GENERATED
22 USING ANTICOUNTERFEIT DESIGN SOFTWARE THAT IS COMMERCIALY AVAILABLE ONLY
23 FOR APPROVED AND ACCREDITED PRINTERS.

24 17. SERIALIZED BLACK QR CODE IN WHICH THE SAME CODE IS PRINTED ON
25 THE TOP LEFT CORNER AND BOTTOM RIGHT CORNER AND THAT CAN BE READ BY NATIVE
26 QR FUNCTIONS OF IOS AND ANDROID SMARTPHONES THAT REDIRECT THE VOTER TO A
27 WEB-BASED VOTER INFORMATION PAGE AND THAT TRACKS THE VOTER'S BALLOT AS IT
28 IS PROCESSED.

29 18. PAPER THAT IS EIGHT AND ONE-HALF INCHES WIDE BY TWENTY-TWO
30 INCHES LONG AND THAT WEIGHS EIGHTY GRAMS PER SQUARE METER.

31 19. A PAPER RECEIPT FOR THE VOTER THAT IS A PERFORATED PORTION OF
32 THE BALLOT, THAT IS SUITABLE FOR THE VOTER TO REMOVE FROM THE BALLOT AFTER
33 COMPLETING THE BALLOT AND THAT CONTAINS THE LOT NUMBER AND SEQUENCE NUMBER
34 OF THE SHEET OF PAPER ON WHICH THE BALLOT IS PRINTED.

35 B. THE LEGISLATURE SHALL APPROPRIATE SUFFICIENT MONIES TO THE STATE
36 TREASURER TO PROVIDE COUNTIES WITH THE BALLOT PAPER PRESCRIBED BY THIS
37 SECTION.

38 C. PAPER THAT MEETS THE REQUIREMENTS OF SUBSECTION A OF THIS
39 SECTION SHALL BE USED IN ALL ELECTIONS FOR STATE OFFICES AND FEDERAL
40 OFFICES.

41 D. THIS SECTION APPLIES TO THE REGULAR GENERAL ELECTION IN 2022 AND
42 ALL ELECTIONS HELD IN 2024 AND LATER.

1 Sec. 3. Appropriation; state treasurer; antifraud ballot
2 paper; exemption

3 A. The sum of \$_____ is appropriated from the state general
4 fund in fiscal year 2022-2023 to the state treasurer for the purchase of
5 antifraud ballot paper to be used by counties as prescribed by section
6 16-504, Arizona Revised Statutes, as added by this act.

7 B. The appropriation made in subsection A of this section is exempt
8 from the provisions of section 35-190, Arizona Revised Statutes, relating
9 to lapsing of appropriations.