

# Tenex Software Solutions Precinct Central 4.0 Electronic Poll Book System Accessibility Review Test Report for California

TEN-18001-ACCTR-01

Prepared for:

<b>Vendor Name</b>	<i>Tenex</i>
<b>Vendor System</b>	<i>Precinct Central 4.0</i>

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## Revision History

Date	Release	Author	Revision Summary
5.12.2018	1.0	M. Santos	Initial Release
5.14.2018	1.1	M. Santos	Clarified Review Results section
5.21.2018	1.2	M. Santos	Updated format per CA request

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## **INTRODUCTION**

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This Test Report details the testing SLI Compliance (SLI) performed for assessing Accessibility properties of the **Tenex Precinct Central 4.0** electronic poll book system (Tenex system) for adherence to the applicable Section 508 and WCAG 2.0 standards.

### **Testing Responsibilities**

#### **Owner Assignments**

- Testing was conducted by Test Specialists, with oversight by the Test Manager

## **REVIEW RESULTS**

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The following are the specifications for Accessibility testing to be conducted on the Tenex system. A total of 16 screens were reviewed out of the 16 available screens for this system.

### **WCAG 2.0 and Section 508 Accessibility Review**

The **Tenex Precinct Central 4.0** electronic poll book system was tested to the applicable WCAG 2.0 and Section 508 standards to evaluate the Accessibility of the system.

- **WCAG 2.0 Requirements and Results:**
- **Section 508 Requirements**

The tables below detail the results of this examination.

## WCAG 2.0 Requirements and Results

### **Perceivable - Web Content Is Made Available To The Senses**

#### **Guideline 1.1**

- Text Alternatives: Provide text alternatives for any non-text content.
  - Requirement met.

#### **1.1.1 Non-text Content (Level A)**

- All images, form image buttons, and image map hot spots have appropriate, equivalent alternative text.
  - Requirement met.
- Images that do not convey content, are decorative, or with content that is already conveyed in text are given null alt text (alt="") or implemented as CSS backgrounds. All linked images have descriptive alternative text.
  - Requirement met.
- Equivalent alternatives to complex images are provided in context or on a separate (linked and/or referenced via longdesc) page.
  - Requirement met.
- Form buttons have a descriptive value.
  - Requirement met.
- Form inputs have associated text labels or, if labels cannot be used, a descriptive title attribute.
  - Requirement met.
- Embedded multimedia is identified via accessible text.
  - Not applicable.
- Frames are appropriately titled.
  - Requirement met.

#### **Guideline 1.2**

- Time-based Media: Provide alternatives for time-based media (NOTE: If the audio or video is designated as an alternative to web content (e.g., an audio or sign language version of a web page, for example), then the web content itself serves as the alternative.)
  - Not applicable. No audio implemented.

### **1.2.1 Prerecorded Audio-only and Video-only (Level A)**

- A descriptive text transcript (including all relevant visual and auditory clues and indicators) is provided for non-live, webbased audio (audio podcasts, MP3 files, etc.).
  - Not applicable. No audio.
- A text or audio description is provided for non-live, web-based video-only (e.g., video that has no audio track).
  - Not applicable. No video.

### **1.2.2 Captions (Prerecorded) (Level A)**

- Synchronized captions are provided for non-live, web-based video (YouTube videos, etc.).
  - Not applicable. No video.

### **1.2.3 Audio Description or Media Alternative (Prerecorded) (Level A)**

- A descriptive text transcript OR audio description audio track is provided for non-live, web-based video.
  - Not applicable. No video.

### **1.2.4 Captions (Live)**

- Synchronized captions are provided for all live multimedia that contains audio (audio only broadcasts, web casts, video conferences, Flash animations, etc.).
  - Not applicable. No video.

### **1.2.5 Audio Description (Prerecorded) (Level AA)**

- Audio descriptions are provided for all video content (NOTE: Only required if the video conveys content visually that is not available in the default audio track).
  - Not applicable. No video.

### **1.2.6 Sign Language (Prerecorded) (Level AAA)**

- A sign language video is provided for all media content that contains audio.
  - Not applicable. No audio.

### **1.2.7 Extended Audio Description (Prerecorded) (Level AAA)**

- When an audio description track cannot be added to video due to audio timing (e.g., no pauses in the audio), an alternative version of the video with pauses that allow audio descriptions is provided.
  - Not applicable. No video.

### **1.2.8 Media Alternative (Prerecorded) (Level AAA)**

- A descriptive text transcript is provided for all pre-recorded media that has a video track.
  - Not applicable. No video.

### 1.2.9 Audio-only (Live) (Level AAA)

- A descriptive text transcript (e.g., the script of the live audio) is provided for all live content that has audio.
  - Not applicable. No audio.

### **Guideline 1.3**

- Adaptable: Create content that can be presented in different ways (for example simpler layout) without losing information or structure.
  - Requirement met.

### 1.3.1 Info and Relationships (Level A)

- Semantic markup is used to designate headings (<h1>), lists (<ul>, <ol>, and <dl>), emphasized or special text (<strong>, <code>, <abbr>, <blockquote>, for example), etc. Semantic markup is used appropriately.
  - Not applicable.
- Tables are used for tabular data. Where necessary, data cells are associated with their headers. Data table captions and summaries are used where appropriate.
  - Requirement met.
- Text labels are associated with form input elements. Related form elements are grouped with fieldset/legend.
  - Requirement met.

### 1.3.2 Meaningful Sequence (Level A)

- The reading and navigation order (determined by code order) is logical and intuitive.
  - Requirement met.

### 1.3.3 Sensory Characteristics (Level A)

- Instructions do not rely upon shape, size, or visual location (e.g., "Click the square icon to continue" or "Instructions are in the righthand column").
  - Requirement met.
- Instructions do not rely upon sound (e.g., "A beeping sound indicates you may continue.").
  - Requirement met.

### **Guideline 1.4**

- Distinguishable: Make it easier for users to see and hear content including separating foreground from background.
  - Requirement met.

#### **1.4.1 Use of Color (Level A)**

- Color is not used as the sole method of conveying content or distinguishing visual elements.
  - Requirement met.
- Color alone is not used to distinguish links from surrounding text unless the luminance contrast between the link and the surrounding text is at least 3:1 and an additional differentiation (e.g., it becomes underlined) is provided when the link is hovered over or receives focus.
  - Requirement met.

#### **1.4.2 Audio Control (Level A)**

- A mechanism is provided to stop, pause, mute, or adjust volume for audio that automatically plays on a page for more than 3 seconds.
  - Requirement met.

#### **1.4.3 Contrast (Minimum) (Level AA)**

- Text and images of text have a contrast ratio of at least 4.5:1.
  - Contrast ratio of only 3.23:1 is below minimum.
- Large text (over 18 point or 14 point bold) has a contrast ratio of at least 3:1
  - Requirement met.

#### **1.4.4 Resize text (Level AA)**

- The page is readable and functional when the text size is doubled.
  - Not applicable. Adjustable.

#### **1.4.5 Images of Text (Level AA)**

- If the same visual presentation can be made using text alone, an image is not used to present that text.
  - Requirement met.

#### **1.4.6 Contrast (Enhanced) (Level AAA)**

- Text and images of text have a contrast ratio of at least 7:1.
  - Contrast ratio of only 3.23:1 is below minimum.
- Large text (over 18 point or 14 point bold) has a contrast ratio of at least 4.5:1
  - Contrast ratio of only 3.23:1 is below minimum.

#### **1.4.7 Low or No Background Audio (Level AAA)**

- Audio of speech has no or very low background noise so the speech is easily distinguished.
  - Not applicable. No audio



#### 1.4.8 Visual Presentation (Level AAA)

- Blocks of text over one sentence in length are no more than 80 characters wide.
  - Requirement met.
- Blocks of text over one sentence in length are NOT fully justified (aligned to both the left and the right margins).
  - Requirement met.
- Blocks of text over one sentence in length have adequate line spacing (at least 1/2 the height of the text) and paragraph spacing (1.5 times line spacing).
  - Requirement met.
- Blocks of text over one sentence in length have a specified foreground and background color. These can be applied to specific elements or to the page as a whole using CSS.
  - Requirement met.
- Blocks of text over one sentence in length do NOT require horizontal scrolling when the text size is doubled.
  - Requirement met.

#### 1.4.9 Images of Text (No Exception) (Level AAA)

- Text is used within an image only for decoration (image does not convey content) OR when the information cannot be presented with text alone.
  - Requirement met.

### **Operable - Interface Forms, Controls, And Navigation Are Operable.**

#### **Guideline 2.1**

- Keyboard Accessible: Make all functionality available from a keyboard
  - See 2.1.1 and 2.1.3 below.

#### **2.1.1 Keyboard (Level A)**

- All page functionality is available using the keyboard, unless the functionality cannot be accomplished in any known way using a keyboard (e.g., free hand drawing).
  - Not Met. Shortcut keys not available.
- Page-specified shortcut keys and accesskeys (accesskey should typically be avoided) do not conflict with existing browser and screen reader shortcuts.
  - Not applicable. No shortcuts.

#### **2.1.2 No Keyboard Trap (Level A)**

- Keyboard focus is never locked or trapped at one particular page element. The user can navigate to and from all navigable page elements using only a keyboard.
  - Requirement met.

### 2.1.3 Keyboard (No Exception) (Level AAA)

- All page functionality is available using the keyboard.
  - Not Met. Not all functionality available from a keyboard.

## **Guideline 2.2**

- Enough Time: Provide users enough time to read and use content.
  - Requirement met.

### 2.2.1 Timing Adjustable (Level A)

- If a page or application has a time limit, the user is given options to turn off, adjust, or extend that time limit. This is not a requirement for real-time events (e.g., an auction), where the time limit is absolutely required, or if the time limit is longer than 20 hours.
  - Not applicable. No time limits.

### 2.2.2 Pause, Stop, Hide (Level A)

- Automatically moving, blinking, or scrolling content that lasts longer than 3 seconds can be paused, stopped, or hidden by the user. Moving, blinking, or scrolling can be used to draw attention to or highlight content as long as it lasts less than 3 seconds.
  - Not applicable. None exists.
- Automatically updating content (e.g., automatically redirecting or refreshing a page, a news ticker, AJAX updated field, a notification alert, etc.) can be paused, stopped, or hidden by the user or the user can manually control the timing of the updates.
  - Not applicable. None exists.

### 2.2.3 No Timing (Level AAA)

- The content and functionality has no time limits or constraints.
  - Requirement met.

### 2.2.4 Interruptions (Level AAA)

- Interruptions (alerts, page updates, etc.) can be postponed or suppressed by the user.
  - Requirement met.

### 2.2.5 Re-authenticating (Level AAA)

- If an authentication session expires, the user can re-authenticate and continue the activity without losing any data from the current page.
  - Not applicable. No time limit.

## **Guideline 2.3**

- Seizures: Do not design content in a way that is known to cause seizures.
  - Requirement met.

### **2.3.1 Three Flashes or Below Threshold (Level A)**

- No page content flashes more than 3 times per second unless that flashing content is sufficiently small and the flashes are of low contrast and do not contain too much red.
  - Requirement met.

### **2.3.2 Three Flashes (Level AAA)**

- No page content flashes more than 3 times per second.
  - Requirement met.

## **Guideline 2.4**

- Navigable: Provide ways to help users navigate, find content, and determine where they are.
  - Requirement met.

### **2.4.1 Bypass Blocks (Level A)**

- A link is provided to skip navigation and other page elements that are repeated across web pages.
  - Requirement met.
- If a page has a proper heading structure, this may be considered a sufficient technique instead of a "Skip to main content" link. Note that navigating by headings is not yet supported in all browsers.
  - Requirement met.
- If a page uses frames and the frames are appropriately titled, this is a sufficient technique for bypassing individual frames.
  - Requirement met.

### **2.4.2 Page Titled (Level A)**

- The web page has a descriptive and informative page title.
  - Requirement met.

### **2.4.3 Focus Order (Level A)**

- The navigation order of links, form elements, etc. is logical and intuitive.
  - Requirement met.

### **2.4.4 Link Purpose (In Context) (Level A)**

- The purpose of each link (or form image button or image map hotspot) can be determined from the link text alone, or from the link text and it's context (e.g., surrounding paragraph, list item, table cell, or table headers).
  - Requirement met.

- Links (or form image buttons) with the same text that go to different locations are readily distinguishable.
  - Requirement met.

#### **2.4.5 Multiple Ways (Level AA)**

- Multiple ways are available to find other web pages on the site - at least two of: a list of related pages, table of contents, site map, site search, or list of all available web pages.
  - Not applicable. Not a website

#### **2.4.6 Headings and Labels (Level AA)**

- Page headings and labels for form and interactive controls are informative. Avoid duplicating heading (e.g., "More Details") or label text (e.g., "First Name") unless the structure provides adequate differentiation between them.
  - Requirement met.

#### **2.4.7 Focus Visible (Level AA)**

- It is visually apparent which page element has the current keyboard focus (i.e., as you tab through the page, you can see where you are).
  - Requirement met.

#### **2.4.8 Location (Level AAA)**

- If a web page is part of a sequence of pages or within a complex site structure, an indication of the current page location is provided, for example, through breadcrumbs or specifying the current step in a sequence (e.g., "Step 2 of 5 - Shipping Address").
  - Not applicable. Not a website

#### **2.4.9 Link Purpose (Link Only) (Level AAA)**

- The purpose of each link (or form image button or image map hotspot) can be determined from the link text alone.
  - Requirement met.
  
- There are no links (or form image buttons) with the same text that go to different locations.
  - Requirement met.

#### **2.4.10 Section Headings (Level AAA)**

- Beyond providing an overall document structure, individual sections of content are designated using headings, where appropriate.
  - Requirement met.

### **Understandable - Content And Interface Are Understandable** **Guideline 3.1**

- Interface provided and content within, are easily understood.
  - Requirement met.

### 3.1.1 Language of Page (Level A)

- The language of the page is identified using the HTML lang attribute (<html lang="eng">, for example)
  - Not applicable. Not functional.

### 3.1.2 Language of Parts (Level AA)

- When appropriate, the language of sections of content that are a different language are identified, for example, by using the lang attribute (blockquote lang="es")
  - Requirement met.

### 3.1.3 Unusual Words (Level AAA)

- Words that may be ambiguous, unknown, or used in a very specific way are defined through adjacent text, a definition list, a glossary, or other suitable method.
  - Requirement met.

### 3.1.4 Abbreviations (Level AAA)

- Expansions for abbreviations are provided by expanding or explaining the definition the first time it is used, using the <abbr> element, or linking to a definition or glossary. NOTE: WCAG 2.0 gives no exception for regularly understood abbreviations (e.g., "HTML" on a web design site must always be expanded).
  - Requirement met.

### 3.1.5 Reading Level (Level AAA)

- A more understandable alternative is provided for content that is more advanced than can be reasonably read by a person with roughly 9 years of primary education.
  - Requirement met.

### 3.1.6 Pronunciation (Level AAA)

- If the pronunciation of a word is vital to understanding that word, its pronunciation is provided immediately following the word or via a link or glossary.
  - Requirement met.

## Guideline 3.2

- Predictable: Make Web pages appear and operate in predictable ways.
  - Not applicable. Not a website

### 3.2.1 On Focus (Level A)

- When a page element receives focus, it does not result in a substantial change to the page, the spawning of a pop-up window, an additional change of keyboard focus, or any other change that could confuse or disorient the user.
  - Requirement met.

### **3.2.2 On Input (Level A)**

- When a user inputs information or interacts with a control, it does not result in a substantial change to the page, the spawning of a pop-up window, an additional change of keyboard focus, or any other change that could confuse or disorient the user unless the user is informed of the change ahead of time.
  - Requirement met.

### **3.2.3 Consistent Navigation (Level A)**

- Navigation links that are repeated on web pages do not change order when navigating through the site.
  - Not applicable. Not a website

### **3.2.4 Consistent Identification (Level AA)**

- Elements that have the same functionality across multiple web pages are consistently identified. For example, a search box at the top of the site should always be labeled the same way.
  - Not applicable. Not a website

### **3.2.5 Change on Request (Level AAA)**

- Substantial changes to the page, the spawning of pop-up windows, uncontrolled changes of keyboard focus, or any other change that could confuse or disorient the user must be initiated by the user. Alternatively, the user is provided an option to disable such changes.
  - Requirement met.

### **Guideline 3.3**

- Input Assistance: Help users avoid and correct mistakes
  - Requirement met.

### **3.3.1 Error Identification (Level A)**

- Required form elements or form elements that require a specific format, value, or length provide this information within the element's label (or if a label is not provided, within the element's title attribute). If utilized, form validation cues and errors (client-side or server-side) alert users to errors in an efficient, intuitive, and accessible manner. The error is clearly identified, quick access to the problematic element is provided, and user is allowed to easily fix the error and resubmit the form.
  - Requirement met.

### **3.3.2 Labels or Instructions (Level A)**

- Sufficient labels, cues, and instructions for required interactive elements are provided via instructions, examples, properly positioned form labels, and/or fieldsets/legends.
  - Requirement met.

### **3.3.3 Error Suggestion (Level AA)**

- If an input error is detected (via client-side or server-side validation), provide suggestions for fixing the input in a timely and accessible manner.
  - Requirement met.

### **3.3.4 Error Prevention (Legal, Financial, Data) (Level AA)**

- If the user can change or delete legal, financial, or test data, the changes/deletions are reversible, verified, or confirmed.
  - Requirement met.

### **3.3.5 Help (Level AAA)**

- Provide instructions and cues in context to help in form completion and submission.
  - Requirement met.

### **3.3.6 Error Prevention (All) (Level AAA)**

- If the user can submit information, the submission is reversible, verified, or confirmed.
  - Requirement met.

## **Robust - Content Can Be Used Reliably By A Wide Variety Of User Agents, Including Assistive Technologies**

### **Guideline 4.1**

- Compatible: Maximize compatibility with current and future user agents, including assistive technologies
  - Requirement met.

#### **4.1.1 Parsing (Level A)**

- Significant HTML/XHTML validation/parsing errors are avoided. Check at <http://validator.w3.org>
  - Not applicable. Not a website

#### **4.1.2 Name, Role, Value (Level A)**

- Markup is used in a way that facilitates accessibility. This includes following the HTML/XHTML specifications and using forms, form labels, frame titles, etc. appropriately.
  - Not applicable. Not a website

## Section 508 Requirements

### **§ 1194.21 Software applications and operating systems**

- (a) When software is designed to run on a system that has a keyboard, product functions shall be executable from a keyboard where the function itself or the result of performing a function can be discerned textually.
  - Requirement met.
  
- (b) Applications shall not disrupt or disable activated features of other products that are identified as accessibility features, where those features are developed and documented according to industry standards. Applications also shall not disrupt or disable activated features of any operating system that are identified as accessibility features where the application programming interface for those accessibility features has been documented by the manufacturer of the operating system and is available to the product developer.
  - Requirement met.
  
- (c) A well-defined on-screen indication of the current focus shall be provided that moves among interactive interface elements as the input focus changes. The focus shall be programmatically exposed so that assistive technology can track focus and focus changes.
  - Requirement met.
  
- (d) Sufficient information about a user interface element including the identity, operation and state of the element shall be available to assistive technology. When an image represents a program element, the information conveyed by the image must also be available in text.
  - Requirement met.
  
- (e) When bitmap images are used to identify controls, status indicators, or other programmatic elements, the meaning assigned to those images shall be consistent throughout an application's performance.
  - Requirement met.
  
- (f) Textual information shall be provided through operating system functions for displaying text. The minimum information that shall be made available is text content, text input caret location, and text attributes.
  - Requirement met.
  
- (g) Applications shall not override user selected contrast and color selections and other individual display attributes.
  - Not applicable. Not Selectable.



- (h) When animation is displayed, the information shall be displayable in at least one non-animated presentation mode at the option of the user.
  - Not applicable. No Animations.
- (i) Color coding shall not be used as the only means of conveying information, indicating an action, prompting a response, or distinguishing a visual element.
  - Requirement met.
- (j) When a product permits a user to adjust color and contrast settings, a variety of color selections capable of producing a range of contrast levels shall be provided.
  - Not applicable. Not Selectable.
- (k) Software shall not use flashing or blinking text, objects, or other elements having a flash or blink frequency greater than 2 Hz and lower than 55 Hz.
  - Requirement met.
- (l) When electronic forms are used, the form shall allow people using assistive technology to access the information, field elements, and functionality required for completion and submission of the form, including all directions and cues.
  - Not Met. No support for assistive technology. Audio not provided.

**§ 1194.22 Web-based intranet and internet information and applications.**

- (a) A text equivalent for every non-text element shall be provided (e.g., via “alt”, “longdesc”, or in element content).
  - Requirement met.
- (c) Web pages shall be designed so that all information conveyed with color is also available without color, for example from context or markup.
  - Not applicable.
- (e) Redundant text links shall be provided for each active region of a server-side image map.
  - Not applicable.
- (f) Client-side image maps shall be provided instead of serverside image maps except where the regions cannot be defined with an available geometric shape.
  - Not applicable.
- (h) Markup shall be used to associate data cells and header cells for data tables that have two or more logical levels of row or column headers.
  - Not applicable.

- (i) Frames shall be titled with text that facilitates frame identification and navigation.
  - Requirement met.
- (j) Pages shall be designed to avoid causing the screen to flicker with a frequency greater than 2 Hz and lower than 55 Hz.
  - Requirement met.
- (l) When pages utilize scripting languages to display content, or to create interface elements, the information provided by the script shall be identified with functional text that can be read by assistive technology.
  - Not applicable.
- (m) When a web page requires that an applet, plug-in or other application be present on the client system to interpret page content, the page must provide a link to a plug-in or applet that complies with §1194.21(a) through (l).
  - Not applicable.
- (n) When electronic forms are designed to be completed online, the form shall allow people using assistive technology to access the information, field elements, and functionality required for completion and submission of the form, including all directions and cues.
  - Requirement met.
- (o) A method shall be provided that permits users to skip repetitive navigation links.
  - Not applicable.
- (p) When a timed response is required, the user shall be alerted and given sufficient time to indicate more time is required.
  - Not applicable. No Timers.

#### **§ 1194.23 Telecommunications products.**

- (k) Products which have mechanically operated controls or keys, shall comply with the following: (1) Controls and keys shall be tactilely discernible without activating the controls or keys.
  - Not applicable. No mechanically operated controls.
- (k) Products which have mechanically operated controls or keys, shall comply with the following: (2) Controls and keys shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist. The force required to activate controls and keys shall be 5 lbs. (22.2 N) maximum.
  - Requirement met.

- (k) Products which have mechanically operated controls or keys, shall comply with the following: (3) If key repeat is supported, the delay before repeat shall be adjustable to at least 2 seconds. Key repeat rate shall be adjustable to 2 seconds per character.
  - Not applicable.
- (k) Products which have mechanically operated controls or keys, shall comply with the following: (4) The status of all locking or toggle controls or keys shall be visually discernible, and discernible either through touch or sound.
  - Requirement met.

#### **§ 1194.24 Video and multimedia products.**

- (c) All training and informational video and multimedia productions which support the agency's mission, regardless of format, that contain speech or other audio information necessary for the comprehension of the content, shall be open or closed captioned.
  - Not applicable.
- (d) All training and informational video and multimedia productions which support the agency's mission, regardless of format, that contain visual information necessary for the comprehension of the content, shall be audio described.
  - Not applicable. No Audio.
- (e) Display or presentation of alternate text presentation or audio descriptions shall be user-selectable unless permanent.
  - Requirement met.

#### **§ 1194.25 Self-contained, closed products.**

- (a) Self-contained products shall be usable by people with disabilities without requiring an end-user to attach assistive technology to the product. Personal headsets for private listening are not assistive technology.
  - Requirement met.
- (b) When a timed response is required, the user shall be alerted and given sufficient time to indicate more time is required.
  - Not applicable. No Timer.
- (c) Where a product utilizes touchscreens or contact sensitive controls, an input method shall be provided that complies with §1194.23 (k) (1) through (4).
  - Not Met. No mechanically operated keyboard provided.
- (d) When biometric forms of user identification or control are used, an alternative form of identification or activation, which does not require the user to possess particular biological characteristics, shall also be provided.
  - Not applicable.

- (e) When products provide auditory output, the audio signal shall be provided at a standard signal level through an industry standard connector that will allow for private listening. The product must provide the ability to interrupt, pause, and restart the audio at any time.
  - Not applicable.
- (f) When products deliver voice output in a public area, incremental volume control shall be provided with output amplification up to a level of at least 65 dB. Where the ambient noise level of the environment is above 45 dB, a volume gain of at least 20 dB above the ambient level shall be user selectable. A function shall be provided to automatically reset the volume to the default level after every use.
  - Not applicable.
- (g) Color coding shall not be used as the only means of conveying information, indicating an action, prompting a response, or distinguishing a visual element.
  - Requirement met.
- (h) When a product permits a user to adjust color and contrast settings, a range of color selections capable of producing a variety of contrast levels shall be provided.
  - Not applicable. Not Adjustable.
- (i) Products shall be designed to avoid causing the screen to flicker with a frequency greater than 2 Hz and lower than 55 Hz.
  - Requirement met.

#### **§ 1194.26 Desktop and portable computers.**

- (a) All mechanically operated controls and keys shall comply with §1194.23 (k) (1) through (4).
  - Not applicable.
- (b) If a product utilizes touchscreens or touch-operated controls, an input method shall be provided that complies with §1194.23 (k) (1) through (4).
  - Not Met. No mechanically operated keyboard provided.
- (c) When biometric forms of user identification or control are used, an alternative form of identification or activation, which does not require the user to possess particular biological characteristics, shall also be provided.
  - Not applicable.
- (d) Where provided, at least one of each type of expansion slots, ports and connectors shall comply with publicly available industry standards.
  - Requirement met.

**§ 1194.31 Functional performance criteria.**

- (a) At least one mode of operation and information retrieval that does not require user vision shall be provided, or support for assistive technology used by people who are blind or visually impaired shall be provided.
  - Not Met. All modes of information retrieval require vision and no apparent support of any blind or visually impaired assistive technology exists.
- (b) At least one mode of operation and information retrieval that does not require visual acuity greater than 20/70 shall be provided in audio and enlarged print output working together or independently, or support for assistive technology used by people who are visually impaired shall be provided.
  - Requirement met.
- (c) At least one mode of operation and information retrieval that does not require user hearing shall be provided, or support for assistive technology used by people who are deaf or hard of hearing shall be provided.
  - Requirement met.
- (d) Where audio information is important for the use of a product, at least one mode of operation and information retrieval shall be provided in an enhanced auditory fashion, or support for assistive hearing devices shall be provided.
  - Not applicable.
- (e) At least one mode of operation and information retrieval that does not require user speech shall be provided, or support for assistive technology used by people with disabilities shall be provided.
  - Requirement met.
- (f) At least one mode of operation and information retrieval that does not require fine motor control or simultaneous actions and that is operable with limited reach and strength shall be provided.
  - Requirement met.

## REVIEW RESULTS

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Findings are reported as followed:

### WCAG 2.0 Review Results

The WCAG 2.0 examination included 93 requirements, which were utilized to review 16 screens, as detailed in the header of the results table.

Of those 92 requirements,

- 61 were determined to meet the requirement
- 4 were determined to not be met, and
- 27 were determined to be Not Applicable

The 4 WCAG 2.0 requirements determined to not be met are:

- **1.4.3 Contrast (Minimum) (Level AA)**
  - Text and images of text have a contrast ratio of at least 4.5:1.
- **1.4.6 Contrast (Enhanced) (Level AAA)**
  - Text and images of text have a contrast ratio of at least 7:1.
  - Large text (over 18 point or 14 point bold) has a contrast ratio of at least 4.5:1
- **2.1.1 Keyboard (Level A)**
  - All page functionality is available using the keyboard, unless the functionality cannot be accomplished in any known way using a keyboard (e.g., free hand drawing).
- **2.1.3 Keyboard (No Exception) (Level AAA)**
  - All page functionality is available using the keyboard.

### Section 508 Review Results

The Section 508 examination included 50 requirements, which were utilized to review 16 screens, as detailed in the header of the results table.

Of those 50 requirements,

- 22 were determined to meet the requirement
- 4 were determined to not be met, and
- 24 were determined to be Not Applicable

The 4 Section 508 requirements determined to not be met are:

- **§ 1194.21 Software applications and operating systems**
  - (l) When electronic forms are used, the form shall allow people using assistive technology to access the information, field elements, and functionality required for completion and submission of the form, including all directions and cues.
- **§ 1194.25 Self-contained, closed products.**
  - (c) Where a product utilizes touchscreens or contact-sensitive controls, an input method shall be provided that complies with §1194.23 (k) (1) through (4).
- **§ 1194.26 Desktop and portable computers.**
  - (b) If a product utilizes touchscreens or touch-operated controls, an input method shall be provided that complies with §1194.23 (k) (1) through (4).
- **§ 1194.31 Functional performance criteria.**
  - At least one mode of operation and information retrieval that does not require user vision shall be provided, or support for assistive technology used by people who are blind or visually impaired shall be provided.

As per the direction given by the California Secretary of State, this accessibility, testing report does not include any recommendation as to whether or not the system should be approved.

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End of Test Report

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