How to Use Microsoft Word and Adobe Acrobat to Make Documents Comply with Accessibility Requirements

Prepared and maintained by NYSERDA Marketing Revised May 2023

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Accessibility Checklist:

In Microsoft Word

- □ Apply a document template
- □ Create and apply styles
- □ Add alt text to objects
- □ Design simple tables
- □ Customize exporting
 - Preferences create a tagged PDF
 - Include bookmarks
 - Embed fonts
- □ Check accessibility in Word

In Acrobat

- □ Assemble report and covers
- □ Assign metadata
 - o Title
 - o Author (Should be publishing organization's name. NYSERDA Reports use NYSERDA)
 - Keywords
 - Assign initial view
 - Assign document language
- \Box Select tab order
- □ Verify reading order
- □ Apply missing alt text
- □ Make tables accessible with the table editor
 - o Ensure header cells and data cells are present
 - Verify regularity
- □ Confirm accessibility with accessibility full check
- □ Correct non-accessible issues

Introduction

When using Microsoft Word to create a document that will be converted to an accessible PDF for posting on the Web, incorporating the best practices for accessibility in the document during its creation is easier than adding them as an afterthought. This step-by-step guide offers best practices for Word and describes how to complete accessibility in Adobe Acrobat.

Components of Accessibility in Microsoft Word:

- Apply a document template
- Applying styles to all text
- Including Alt Text with all images/figures
- Create simple tables
- Customizing export settings
 - Include tags in the PDF
 - Including bookmarks
 - Embed fonts
- Using Microsoft Accessibility Wizard to check accessibility
- Exporting to PDF
- Finalizing accessibility in Acrobat

Components of Accessibility in Adobe Acrobat:

- Assembling Report with Covers (NYSERDA Reports)
- Adding document metadata
 - o Title
 - Author (should be publishing organization: NYSERDA reports use NYSERDA)
 - o Keywords
 - Assign initial view
 - Assign document language
- Selecting tab order
- Verifying reading order
- Apply missing alt text
- Make tables accessible
 - Ensure header cells and data cells are present
 - o Verify regularity
- Confirming document accessibility with the Accessibility Tool
- Correct non-accessible issues

Accessibility from Microsoft Word

Document Templates

Enabling the Developer Tab

Using predesigned document templates to create and assign styles within a document is an easy way to ensure accessibility. To apply a document template, you will need to enable the Developer tab. To do so, click on the File tab, and click Options at the bottom left of the screen. Click on Customize Ribbon (Figure 1). On the right column under Main Tabs, scroll down until you see **Developer**. Click the checkbox next to the Developer tab. Click OK. This process will only need to be done one time, and it will remain visible within Word.

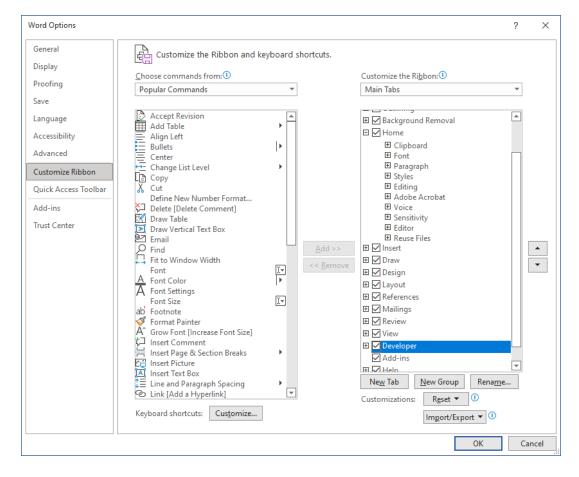


Figure 1 Customize the Ribbon to include the Developer Tab

Applying a Template

After the Developer tab is visible on the Ribbon, use the following steps to apply a template. Open the Developer tab and click on Document Template (at the right side of the ribbon). The Templates and Add-ins window will open. If the field under Document template says Normal, no template is currently applied. Use the Attach button to navigate to the appropriate template (Figure 2).

Figure 2. Applying the Document Template

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If applying the document template to a blank document, you can leave the "Automatically Update Document Styles" box unchecked. If applying to an existing document, ensure that box is checked. It will update any applied styles in the document that have a matching style name. With this box checked each time the document is re-opened, all document styles will be updated to match the template.

Note: If custom styles have been used in the existing document, they will not change and appropriate styles will need to be manually applied. Once you have updated the styles, it is a good idea to uncheck the "Automatically Update Document Styles" box. If you intentionally modify a portion of the document to vary from a style, those changes will be lost upon reopening the document.

Setting Up and Applying Styles

Assigning Paragraph Styles to document text will not only allow better organization of the document, and ensure consistency throughout the document, but they will also create proper accessibility tags in the document that will be exported along with the PDF. To show the Paragraph Styles palette, click on the Home tab and click the expansion arrow at the bottom right corner of the Styles section. The Styles panel will open at the right side of the document. This panel can be docked within the window or may be free-floating on your screen.

If using NYSERDA's Report Template, all NYSERDA preferred styles are already included in the Styles pane. If not using NYSERDA's template, modify existing styles by right clicking on the Style, and customizing it using the Modify Style Window (Figure 3). Customize a new Style for each component of the document, including headings, sub-headings, body text, figure captions, figure source, bullets, footnotes, call outs, etc.

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Figure 3. Modify Style Window

Once Styles have been created, apply them to content by selecting the text and clicking on the appropriate Style in the Paragraph Styles palette. Most Styles can be applied by placing the cursor within the paragraph (without selecting text) and then clicking on the appropriate Style (Figure 4). On occasion, the Style may need to be applied twice, or the text may need to be selected before the Style will accurately be applied.

Figure 4. Applying a Style to Selected Text

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Including Alt Text with Objects

Adding Alt Text in the Word document saves many steps when verifying the accessibility in Acrobat. Alt text can be added to the Word document using the Alt Text panel (Right click on image, then select Edit Alt Text). Add a description of the figure (Figure 6). For specific instruction on creating Alt Text, refer to NYSERDA's *Guide to Creating and Applying Alt Text in Word Documents for NYSERDA Staff and Contractors*.

Figure 5. Image Showing the Alt Text Panel Location for Adding Alt Text

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Creating Simple Tables

When designing Tables for accessible documents, it is important to keep them simple. A screen reader will read the Table from left to right, top to bottom. To ensure that both the sighted reader and electronic screen reader can understand the flow of a Table, ensure that the Table:

- Has regular and uniform series of rows and columns (don't merge cells in the body of the Table)
- Has clearly identified header cells (to designate a row as a header, select it, then right-click and select Table Properties. Select the Row tab, and check "Repeat as header row at the top of each page." Also, be sure "Allow row to break across pages" is unchecked)
- has a caption to describe how data is organized. It may not be necessary in very simple tables but can be important where the data is laid out in an unusual order or the table structure is complex. Best to have it appear before the table so that it can prepare a user before they actually start to navigate it.

Assigning Export Tagging Instructions to Paragraph Styles

Export tags in Paragraph Styles help to create an association between the text using that Style and its role in the structure of the PDF. Tags are assigned automatically in Word when you assign Styles to your text. When exporting your document to PDF, using the Acrobat tab, first customize your preferences (Figure 7). Under the Application settings, ensure that you have checked: Create Bookmarks; Add Links, and Enable Accessibility and Reflow with tagged Adobe PDF. Advanced tagging is an optional if you find that your document is not converting correctly.

Figure 6. Verify the Proper Settings in the Export to PDF Window

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The final step in Word is to Create the PDF.

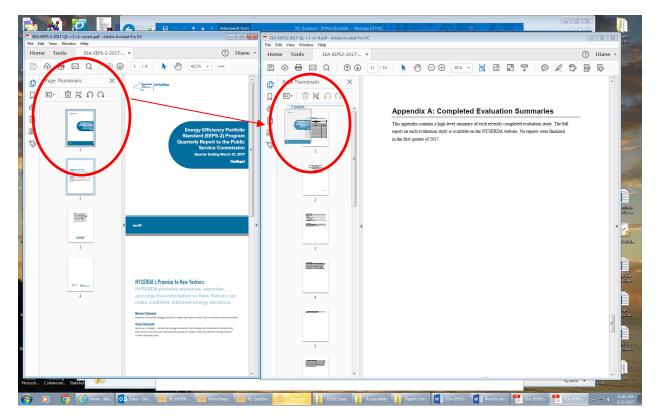
Completing Accessibility in Adobe Acrobat

Once the Microsoft Word document has been exported to a tagged PDF, it will need to be finalized in Adobe Acrobat. NYSERDA-published reports will have covers created in In Design and added to the PDF after creation by the Marketing Department.

Assembling Reports and Covers in Adobe Acrobat

To add pages from one PDF to another PDF, open both PDF files. Arrange the two files so they appear side by side on your screen and open the "page thumbnails" panel from the icons on the left side or use the F4 key to open the window. With both thumbnail views showing, select the pages you want to add from one file and drag and drop it where you want it to appear in the second file. Repeat this process for all pages you are adding. In the example of cover pages, select the first two pages of the cover PDF, and drop them before the first page of the report PDF. Likewise, drop the last two pages of the cover file after the last page of the report file (Figure8 and 9).

Figure 7. Drag the First Two Cover Pages to the Beginning of the Report Document



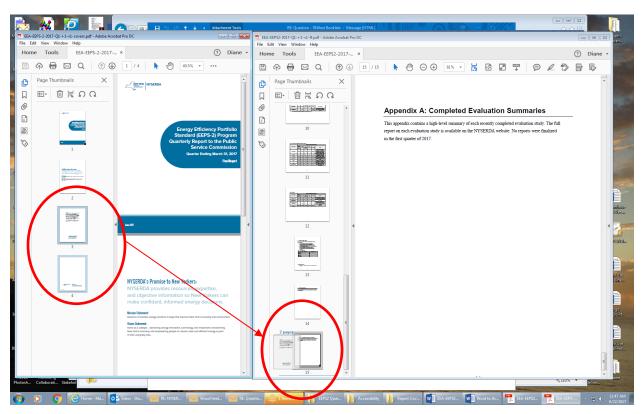


Figure 8. Drag the Last Two Cover Pages to the End of the Report Document

Modifying Document Properties

Adding or modifying Document Properties are an important step in creating an accessible file. The document's properties are converted as metadata, providing direction on how the document will be displayed, and enhancing searchability from internet browsers. There are three main components within the Properties window to address: Document Description, Initial View, and Language.

Document Description

Use the Document Properties window to access the metadata of the file. (File \rightarrow Properties \rightarrow Advanced tab). Click on the first tab – Description, and ensure that the Title, Author, and Keywords fields are accurately populated (Figure 9). When adding the Author, include the name of the agency or organization publishing the document, and not the individual writing the report.

Figure 9. Populate Title, Author, Subject, and Keywords in the Document Properties Panel.

escription Sec	urity Fonts Initial View Cu	stom Advanced		
Description				
File:	Updated Determination of Sul	fur and Other Trace Element Content_accessible2		
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Author:	NYSERDA			
Subject:	Sulfur and Fuel Oil			
Keywords:	sulfur, fuel, oil, fuel oil, trace o	elements, NYSERDA, PDD		
Created:	7/7/2017 11:49:56 AM		Addit	tional Metadata
Modified:	8/1/2017 8:06:52 AM			
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Page S	Size: 8.50 x 11.00 in	Number of Pages: 50		
Tagged P	PDF: Yes	Fast Web View: No		
Help			ОК	Cancel

Setting Up Document Initial View

While in the Document Properties menu, click on the third tab - Initial View - and make sure the options are as follows (Figure 10):

- Navigation Tab: Page Only
- Page Layout: Single Page
- Magnification: Fit Page
- Open to Page:1
- Under Window Options show: Document Title

Figure 10. The initial view of the document should show the document title and not the document name when the file is opened.

Document Properties
Description Security Fonts Initial View Custom Advanced
Layout and Magnification
Navigation tab: Page Only
Page layout: Single Page
Magnification: Fit Page -
Open to page: 1 of 14 (20)
Window Options
Resize window to initial page
Center window on screen
Open in Full Screen mode
Show: Document Title 🗸
File Name
User Inter Document Title
🔲 Hide menu bar
Hide tool bars
Hide window controls
Help OK Cancel

Assigning a Document Language

The last required component in the document properties window is to ensure a language is selected. In many cases, a document's language may be set in the source software if it is exported with tags. In the event that it is not, the language should be verified in the document properties window. On the last tab – Advanced - under Reading Options, select appropriate language (Figure 11).

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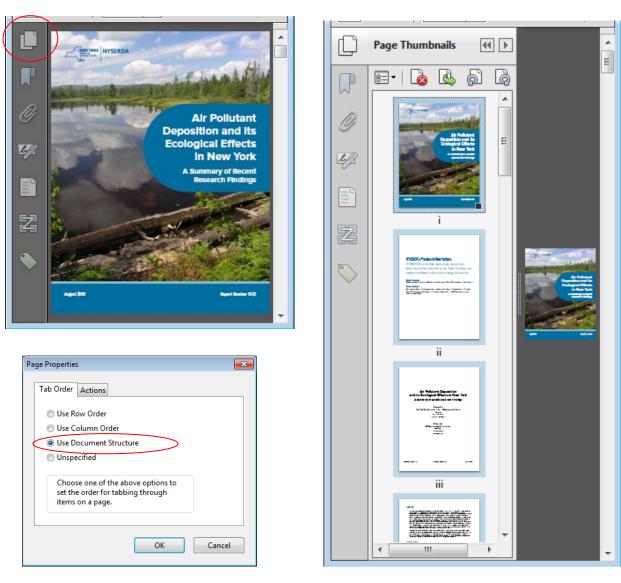
Figure 11. Assign the Reading Order in the Adobe Acrobat Document Properties Window.

Selecting Tab Order

From the Pages view (click the Pages icon in the top left navigation), select All Pages. Right click on any page and select Page Properties. Select: Use Document Structure (Figure 12).

Figure 12. When Selecting Tab Order in Acrobat, a) Open the Pages Panel; b) Select All Pages; c). Specify Use Document Structure

a)



b)

Locating Accessibility Tools

Once the Document Properties and Tab Order have been assigned, open the Accessibility Tools panel to continue preparing the document accessibility. Access the Touch Up Reading Order tool by clicking on the Tools tab, then locate the Accessibility tool group and drag to the Tools panel for easy access. (Figure 13).

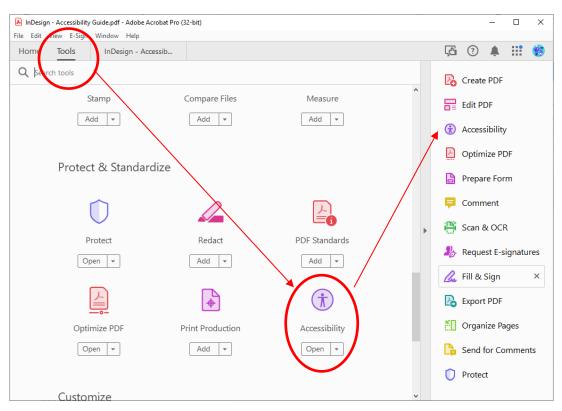


Figure 13. Accessing the Accessibility Tools Panel

Reading Order, Tag Assignment, and Alternative Text

Verify Reading Order and Tag Assignment

The Reading Order of a document refers to the order in which items on the page are read by a screen reader. A complex page design such as one including columns, text call outs, text wrap and figures, will result in multiple tags that may need to be manually reordered for accurate flow. To verify the Reading Order, use the Touch Up Reading Order tool (Figure 13). From the Accessibility tools panel, select Reading Order (Figure 14).

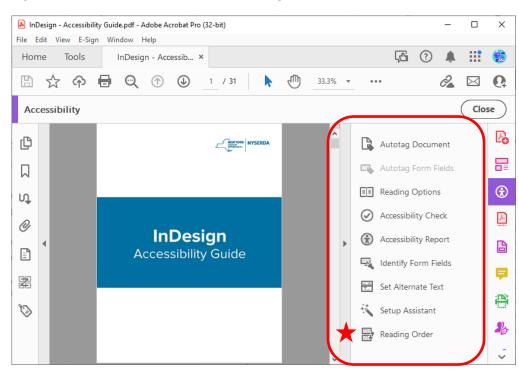


Figure 14. Select the Touch-Up Reading Order Tool

When the Reading Order Tool is selected, page content will be broken up into tagged sections and the Reading Order pop-out window will be displayed. Click on the Show Order Panel to enable Reading Order changes (Figure 15).

Figure 15. Touch-Up Reading Order Tool Displays Document Tags and Pop-out Reading Order window Allows Order Changes

				Reading Order
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	[8] Image ✓ □ Page 7		Reading Order	Clear Page Structure Show Order Panel
	<			close

Page through the document checking the order of the tags as well as ensuring that the tags are correct, and that the document flow makes sense (Figure 16). Any tags that are incorrect should be corrected (either right click on the tag in the Order pane and select appropriate tag type, or draw a selection box around the item, select the proper tag from the touch up reading order panel)

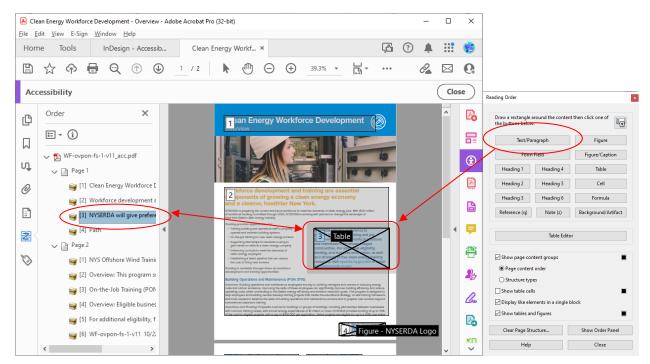


Figure 16. Ensure Proper Reading Order and That All Items are Tagged with the Appropriate Tag Assigned

Adding Alternative Text

Ensure that the Alt Text added in Word is present. If it is missing, right click on the image or select the image tag in the order panel, right click, and select edit Alt Text (Figure 17). Alt Text may also be added during the final accessibility check using the "Set Alternate Text" function of the accessibility tool (Figure 18).

Figure 17. Right Click on Images in Adobe Acrobat and Select Edit Alt Text to Add Missing Alt Text

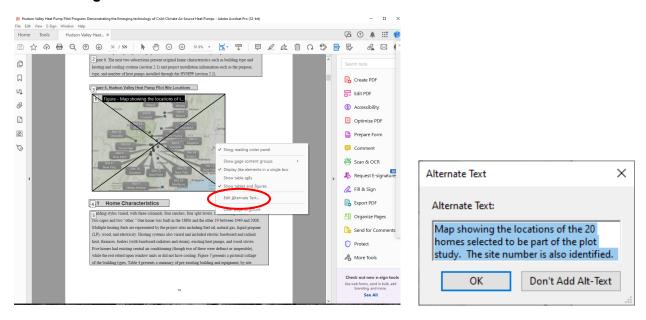
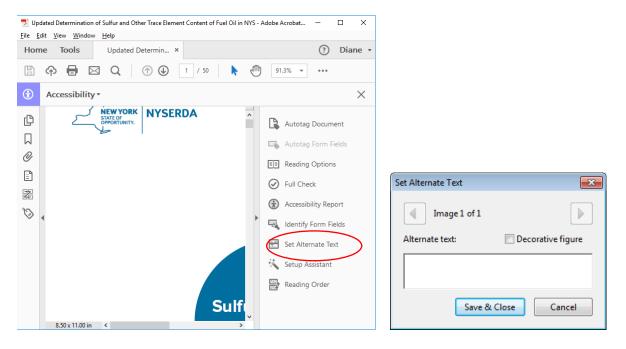


Figure 18. Finding the Set Alternate Text Function in Acrobat



Making Tables Accessible with the Table Editor

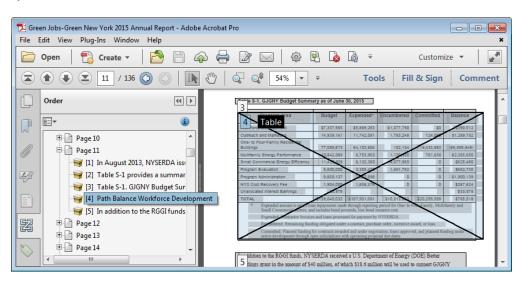
Table Headers and Regularity

To be accessible, every Table needs to have a header row, and have logical consistency and regularity among the cells. This means that each row and each column need to have the same number of cells

(merged cells will result in a failing accessibility check), Modify the table header and regularity using the Table Editor. Select the appropriate tag in the Reading Order panel, then click Table Editor on the Touch-Uup Reading Order panel(Figure 19). You can also access the Table Editor by right clicking on the Table and selecting Table Editor from the quick access menu. (Figure 20)

Figure 19. a) Select the Proper Tag from the Orders Panel, Then b) Click on Table Editor in the Touch-Up Reading Order Panel, c) Pink Highlighted Cells Represent Heading Cells, and Grey Cells Are Data Cells.

a)



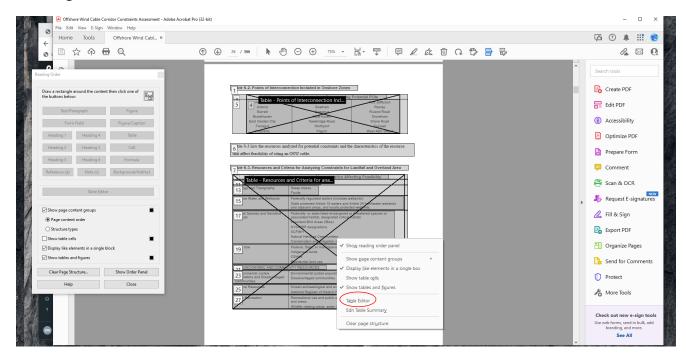
b)



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a 1	/ 136 53.5% 💌	Ŧ	Тоо	ls Fil	& Sign	Con	nment
	Table \$-1. GJGNY Budget Summ	ary as of June	30, 2015				ľ
	Program Area	Budget	Expended*	Encumbered	Committed	Balance	
	Vorkforce Development	\$7,337,565	\$5,869,263	\$1,077,790	\$0	\$390,512	
	Dutreach and Marketing	14,939,161	11,742,081	1,783,248	124,080	\$1,289,752	
	One- to Four-Family Residential Buildings	77.089.673	64,103,604	152,134	19,433,883	(\$6,599,948)	
	Autorigs Autifamily Energy Performance	10.842.089	64,103,604	1.130.900	701.636	(\$6,599,948) \$2,255,650	
	Imail Commercial Energy Efficiency	11,435,829	6,132,380	4,677,969	0	\$625,480	
	Program Evaluation	5,600,000	3,305,478	1,691,792	0	\$602,730	
L.Y.	Program Administration	9,858,137	7,957,998	0	0	\$1,900,139	
	NYS Cost Recovery Fee	1,904,000	1,636,376	0	0	\$267,624	
	Inallocated Interest Earnings	33,578				\$33,578	
	TOTAL		\$107,501,081				
	 Expended amount is net of loa Small Commercial sectors, and 				Four-Family, Multi	ifamily and	
	Expended: Contractor Invoice	s and loans process	ed for payment by	NYSERDA.			
	Encumbered: Remaining fund	ing obligated unde	r a contract, purchi	use order, incentive a	ward, or loan.		
E	Committed: Planned funding funding for active development through or				ed; and planned fu	nding under	
	active advelopment brough or	oen sone-kultonis w	on proceeding proce	nen eue atles.			1
	In addition to the RGGI funds, NYS		•		· · ·		
	Buildings grant in the amount of \$4	0 million, of wi	hich \$18.6 milli	ion will be used t	o support GJG	YY	

c)

Figure 20. Access the Table Editor by Right Clicking on the Table with the Touch-Up Reading Order Tool Selected.



With the Table Editor open, the cells of the Table will be highlighted. Header cells are highlighted in pink. Data cells are grey. If no header cells are identified, add header cells to the Table (select appropriate cells \rightarrow right click \rightarrow Table Cell Properties \rightarrow header cell) (Figure 20). Likewise, make any non-header cells data cells.

Figure 20. Identify Appropriate Header and Data Cells

Table Cell Properties
Header Cell Scope: None Data Cell
Attributes
Row Span: 1 Column Span 1 ID:
Associated Header Cell IDs:
OK Cancel

You can also correct the Table's regularity by selecting any cell that is merged to cover more than one row or column and designate how many rows or columns that cell represents by adjusting the Row or Column Span fields on the Table Cell Properties window. Repeat this process for each merged cell in the Table. (Figure 21)

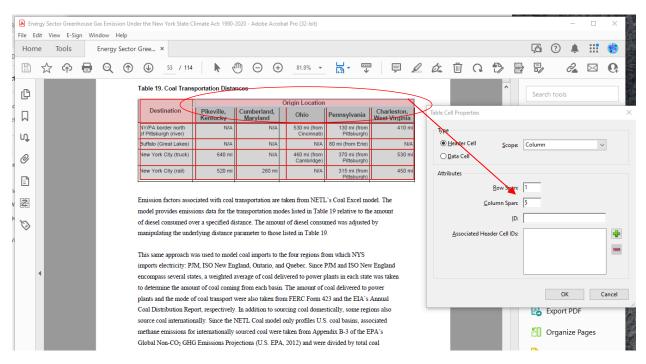
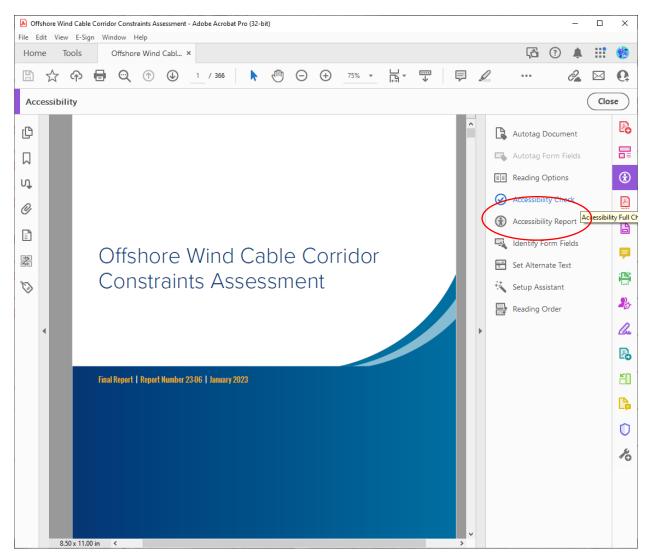


Figure 21. Ensure That Tables Have Consistent Columns and Rows for Table Regularity Using the Table Editor

Confirming Document Accessibility with the Full Accessibility Check

Adobe Acrobat XI and later versions have a built-in Accessibility Checker. This function will help verify that all of the steps previously completed have been done correctly. Select the Accessibility Tools option from the Tools Panel at the right side of the screen as shown in Figure 22.

Figure 22. Open the Accessibility Tools Panel and Perform a Full Check to Verify a Document's Accessibility



In the Accessibility Checker Options window notice that there are 32 categories of accessibility options to check for. NYSERDA requires that all 31 of these 32 categories pass the check before a document is accepted as accessible. The Table Summary category has become obsolete with the newest upgrades to functionality of screen readers, and accessibility tools. As a result, before running the Accessibility Checker, click on the "Forms, Tables and Lists" option from the category drop down list, and uncheck the "Tables must have a summary" box (Figure 23). You may also choose to check for all 32 categories and opt to skip the Table Summary in the Accessibility Report. (Figure 24)

Figure 23. Accessibility Checker Options Window.

4	Accessibility Ch	ecker Options					×
	Report Optio	ns					
	Create accessibility report						
	Folder: C:\U	sers\dlw\AppData\	Roaming\/	Adobe\Acrobat\I)C\AccReports	Choose	
	Attach re	port to document					
	Page Range						
	All pages	in document	O Pag	ges from 1	to 1		
-	Checking Op	tions (31 of 32 in al	l categorie:	s)			
	Category:	Forms, Tables and	Lists			~	·
	All form	fields are tagged			ns, Tables and Lists ument		
	All form	fields have descript	ion	All form Page	e content ns, Tables and Lists		
	TR must	be a child of Table,	THead, TBo	All form Alter	nate Text and Heading	js	_
	TH and T	Ɗ must be children	of TR				
	✓ Tables m	ust have headers					
	✓ Tables m	ust contain the sam	ne number	of columns in ea	ch row and rows i	n each column	
	Tables m	ust have a summar	у 🔪)			
	Ll must b	be a child of L					
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	Select A	II Clear All					
	Show this d	ialog when the Che	cker starts				
	Help				Start Checkin	g Cancel	
	cip				Start Checkin	S	

Once the accessibility check is complete, the Accessibility Checker panel will open in Acrobat. There will always be two document issues in the Accessibility Checker panel. Logical Reading Order, and Color Contrast need to be checked manually (Figure 24). If any other issues are bolded in the report, correct each issue, then recheck the document (Figure 24 "Failing Accessibility Report").

Figure 24. Accessibility Checker Report and Example of a Passing Accessibility Report, and One That Requires Attention.

