

November 7, 2008

MEMORANDUM FOR Mario Turse
Branch of Occupation Statistics Surveys
Office of Field Operations

From: Kathy Downey
Office of Survey Methods Research

Subject: Summary of Expert Review of SOII IDCF Web Pages

Content of the Report

OSMR was asked by OFO to review the SOII IDCF Web Pages. The review team from OSMR consisted of Scott Fricker, Bill Mockovak, Jean Fox, Christine Rho and myself.

We pulled findings and recommendations from the three reports listed below. These recommendations were supported by our recent group review of the survey pages:

- “Expert Review of the Survey of Occupational Injuries and Illnesses (SOII) on IDCF” by Scott Fricker and dated September 24, 2007 (termed “Fricker review” for this report)
- “Results of the SOII-IDCF Usability Test” by Scott Fricker and dated November 16, 2007 (termed “Fricker usability” for this report)
- “Summary of Eye-Tracking Study Using the SOII IDCF Instrument” by Bill Mockovak and dated September 8, 2008 (termed “Mockovak eye-tracking” for this report)

In addition, we generated a few additional recommendations from our recent review. Those recommendations have been incorporated into this report.

Because there are a lot of separate pages in the SOII instrument, only more important recommendations will be discussed in the body of this report. Pages without any recommendations, or with only very minor suggested changes, are covered in Appendix C.

The Rating System and Recommendations

To assist with the planning and revision process, OSMR developed a rating system for the recommendations shown in this report. These ratings reflect the amount of time we estimate changes will take to implement. For example, wording changes (short-term) could theoretically be done in a few days, unless they require an extensive review by multiple parties. On the other hand, changes in the order with which pages appear, or in the functionality of navigational elements (for example, buttons) are expected to take more time. The rating system is as follows:

- “Short term” – wording changes only
- “Mid term” – changes that affect the order of pages (flow), but seem simple to execute

- “Long term” – changes with skip patterns (or associated buttons) that appear to be more complex and would require more testing

These ratings are based on OSMR’s understanding of the amount of programming, testing, and review involved in the changes. However, since OSMR did not ask professional developers to review these recommendations, they should be viewed with that limitation in mind.

List of Appendices

Appendix A – summary chart of the recommendations.

Appendix B – recommendations dealing with Gatekeeper issues (from Fricker usability report).

Appendix C – SOII pages with only very minor, or no, recommendations.

Appendix D – recommendations on reporting cases with days away from work (from Fricker review report).

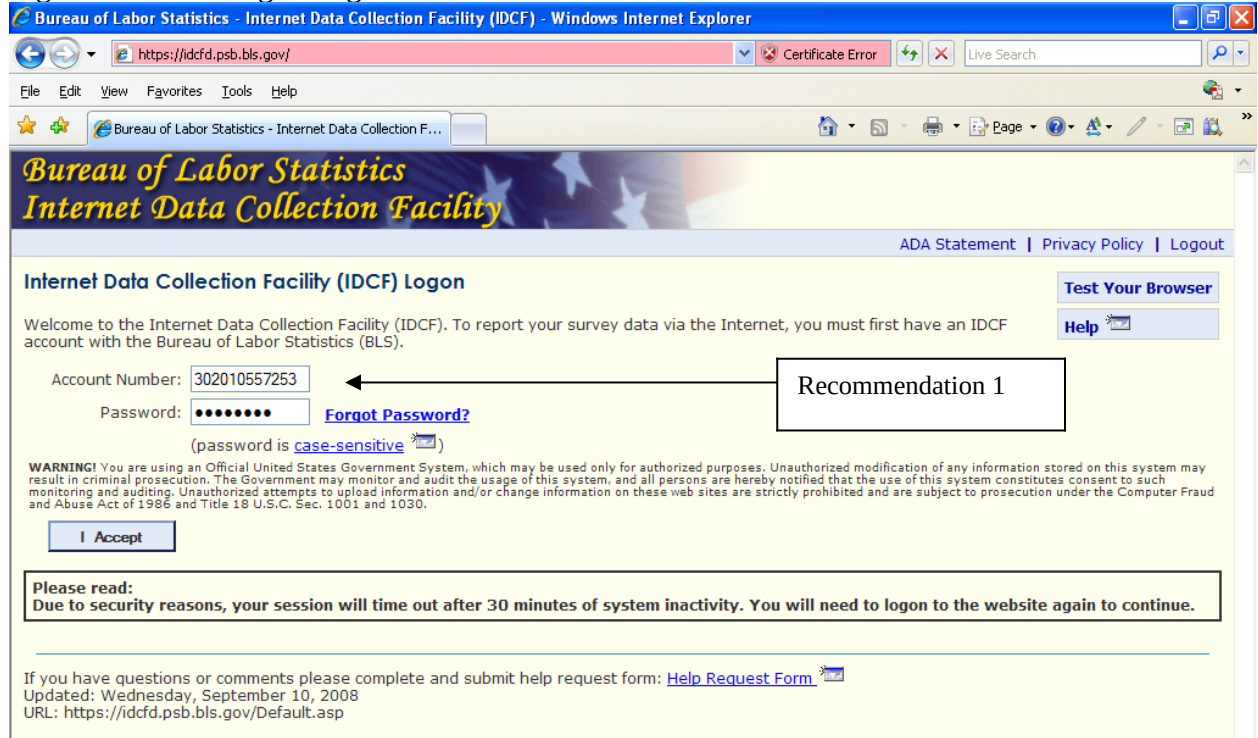
Appendix E – recommendations on reporting cases with days away from work (from Fricker usability report).

Appendix F – recommendations on reporting cases with days away from work (from Mockovak eye-tracking report).

IDCF LOGON PAGE

Although we did not include the logon page (see Figure 1) in our recent expert review, since it obviously affects the usability of the SOII instrument, we would like to note recommendations that were made in the Fricker usability report.

Figure 1: IDCF Logon Page



Recommendations

Recommendation 1 – Improving the readability of account numbers

Mid term

To improve readability and to eliminate possible keying errors resulting when long number strings are entered (Fricker usability report):

1. Shorten the length of the IDCF account numbers or, if that is not feasible, present them as smaller chunks of digits (i.e., in groups of 3 or 4 digits).
2. If the preceding change cannot be made, or is too difficult to make, avoid the use of consecutive number strings, such as '000,' which can be difficult to discriminate when they appear in the middle of a longer string of numbers.

Recommendation 2 – Revise the gatekeeper message when someone tries to register twice with the same email

Short term

The revision below removes unnecessary words from the message and emphasizes the appropriate user action more clearly. (At the very least, the comma in the last sentence of the current wording should be changed to a semi-colon or a period.)

“Our records show that you already have an IDCF account for reporting data to this survey. That account number has been provided for you below. **Please enter the permanent password for that account.**”

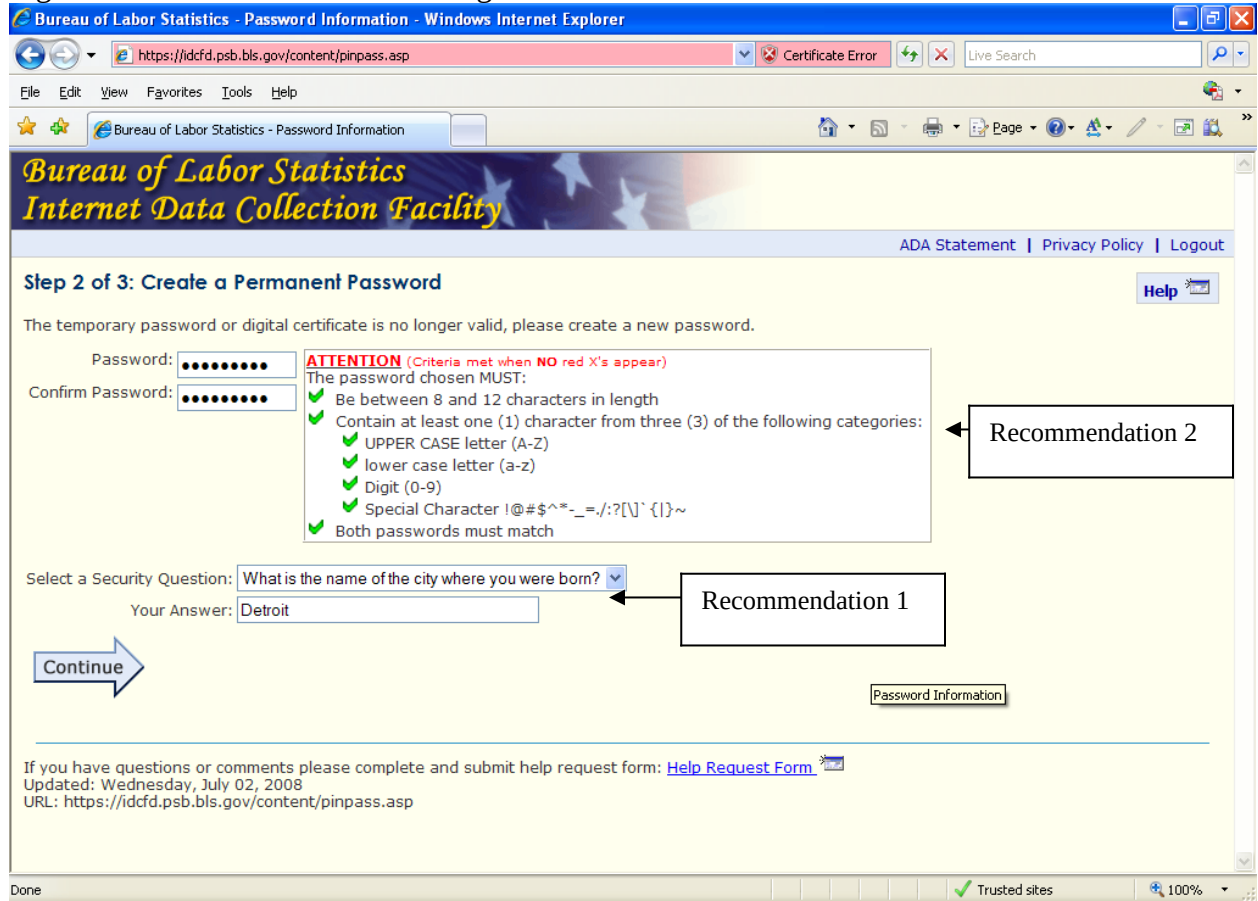
Figure 1a. *Already Registered* Message for Multiple Reporters



IDCF CREATE PASSWORD PAGE

This continues to be one of the more frustrating pages for users (based on Fricker usability report). The long list of criteria that a new password must meet is seldom read carefully until users have multiple failed attempts. Users who reach that point are frequently in such a hurry to ‘fix the problem’ that they then fail to select a *Security Question* and, as a result, another error message is generated.

Figure 2: IDCF Create Password Page



Recommendations

Recommendation 1 - Move the security question items

Mid-term

Consider moving the *Security Question* items to a separate page to avoid confusion and additional frustration. (Fricker usability report)

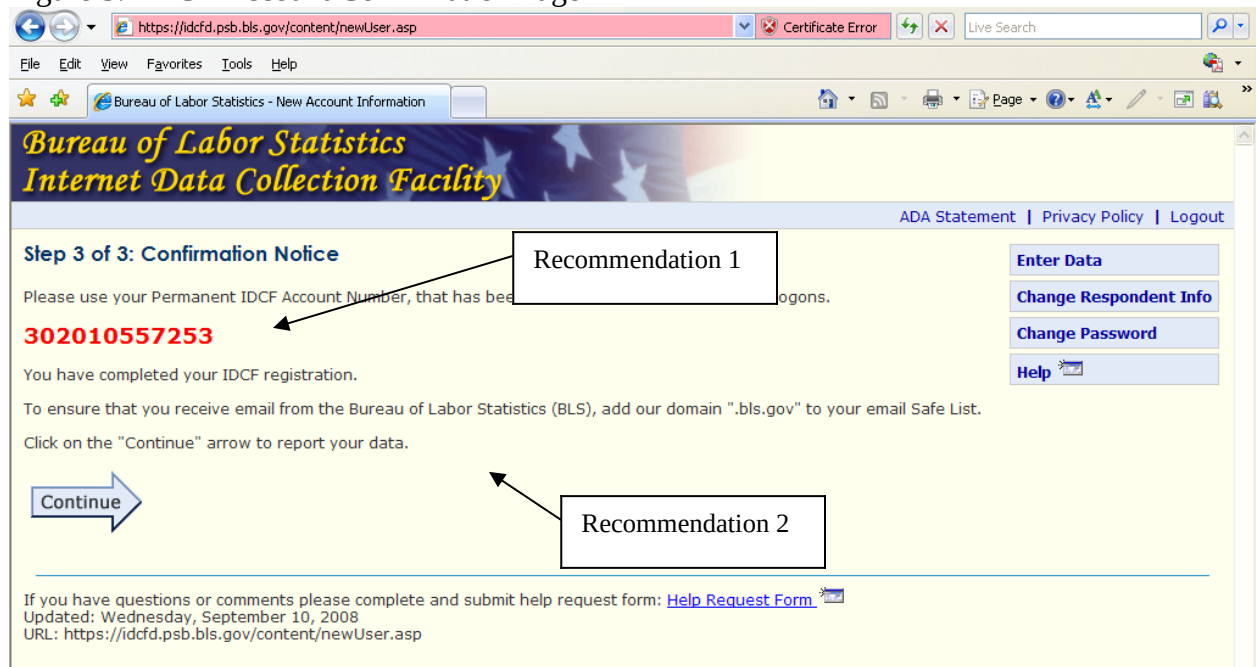
Recommendation 2 – Create a password working team

Long term

Consider assembling a team of OTSP and OSMR staff to look into alternative approaches to this page that will maintain the necessary IDCF security but improve usability. (Fricker usability report)

CONFIRMATION OF IDCF ACCOUNT PAGE

Figure 3: IDCF Account Confirmation Page



Recommendations

Recommendation 1: Abbreviation of IDCF

Short term

Write out "Internet Data Collection Facility (IDCF)" in the first sentence.

Recommendation 2: Change wording of screen

Short term

Change the wording on the screen to the following (Fricker usability report). It is also important to note that the page might have a typo where it says ".BLS.gov" and **not** "BLS.gov" as the domain.

"Your permanent Internet Data Collection Facility (IDCF) account number appears below. This will be emailed to you.

Please use this number and your new password when you logon in the future.

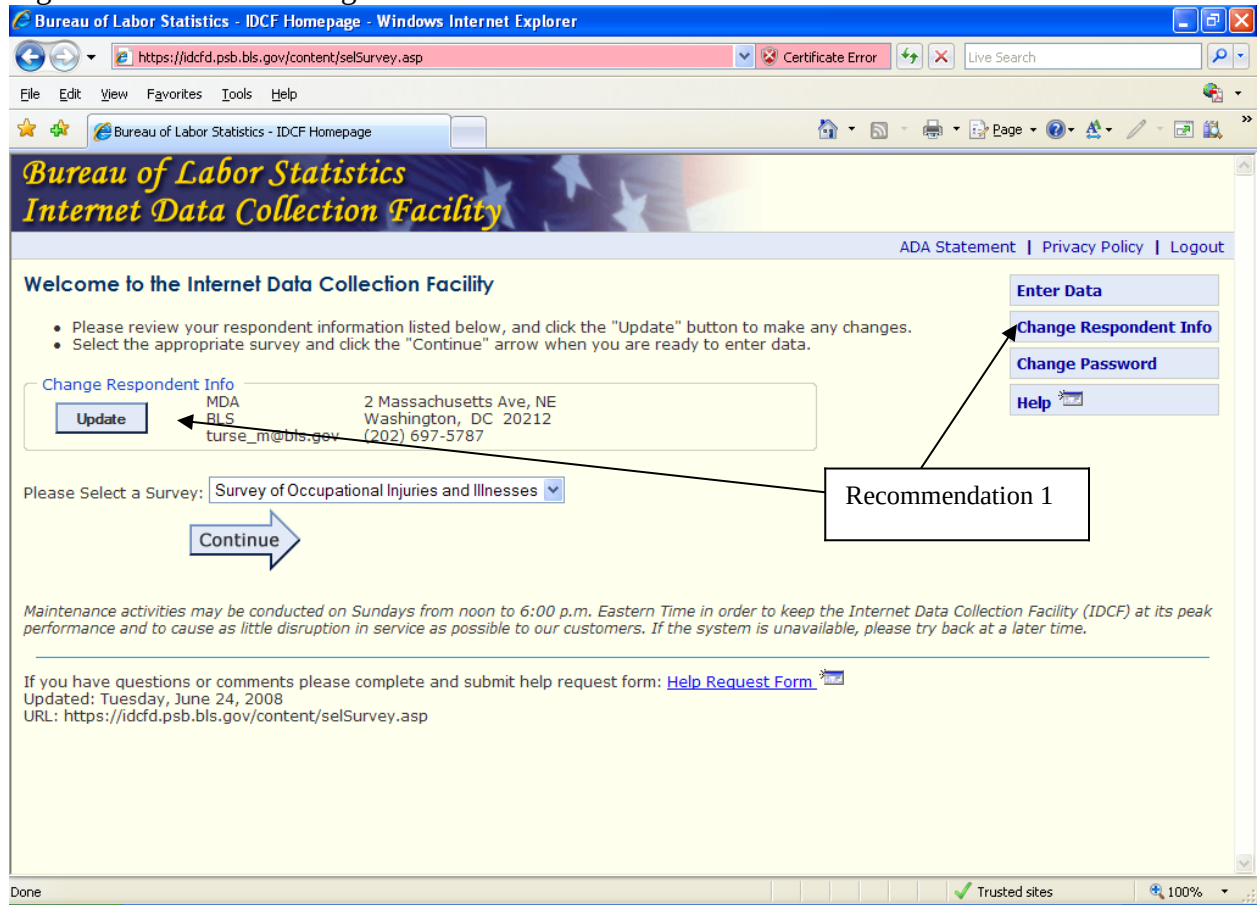
302010557253

You have completed your IDCF registration.

To ensure that you receive email from the Bureau of Labor Statistics (BLS), add our domain, "BLS.gov" to your email safe list.

Click on the *Continue* arrow to report your data."

Figure 4: IDCF Home Page



Recommendations

Recommendation 1: One button for changing respondent info

Mid term

During the expert review, the question was asked why there is a *change respondent info* button AND an *update* button on the same page since they do the same thing? It's not an issue that these buttons need to be consistent with the rest of the survey, since they aren't available once you leave this page and enter the survey. There should only be one button (based on the expert review).

Recommendation 2: Don't require the respondent to select the survey, if only one is listed

Long term

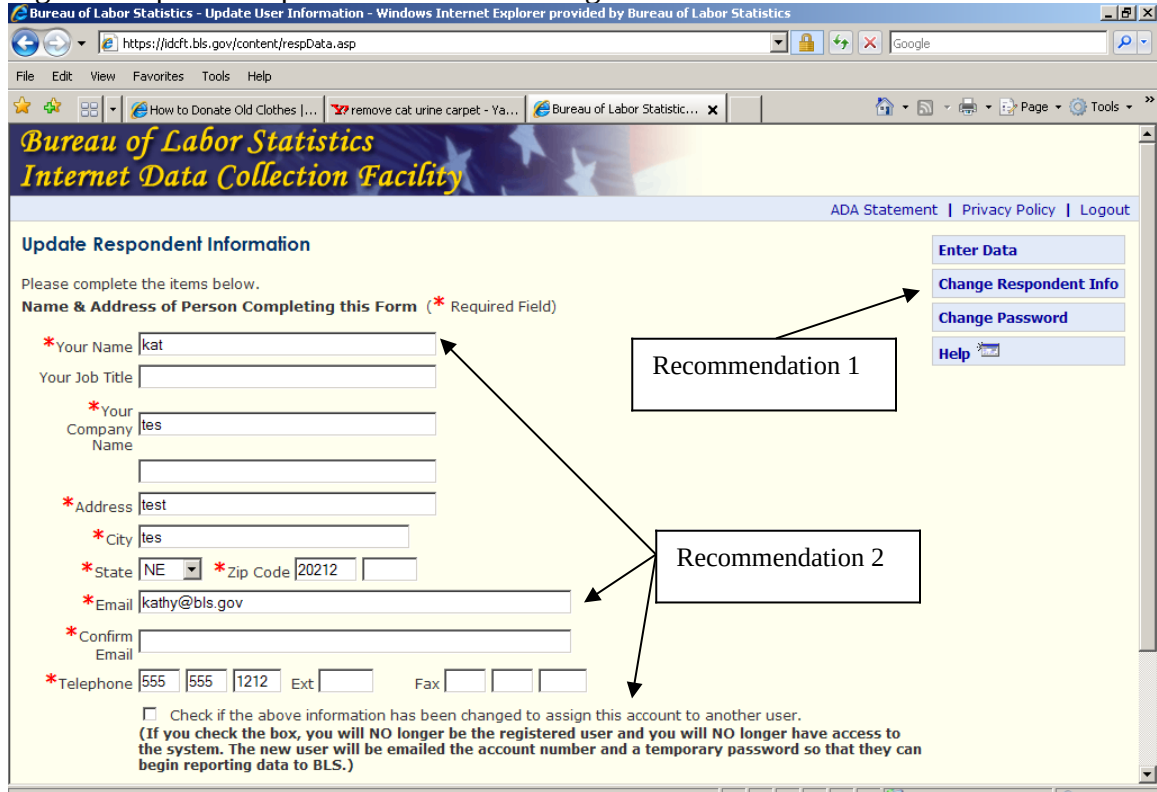
From the Fricker Review report:

"We have commented about this screen several times in the past, but will mention it one more time. A computer-assisted interviewing system should be "smart" enough to know which survey a respondent is reporting for, especially after the respondent has just logged on with an account number and password for that survey. Requiring the respondent to

“select” a survey in this case is unnecessary. It’s obviously not a fatal problem. It just makes our system seem poorly designed.”

We’ve been told that respondents aren’t truly selecting a survey as the reason that this change hasn’t been made. However, the task says to “please select a survey.”

Figure 5: Update Respondent Information Page



Recommendations

Recommendation 1: Delete the *Change Respondent Info* button

Mid term

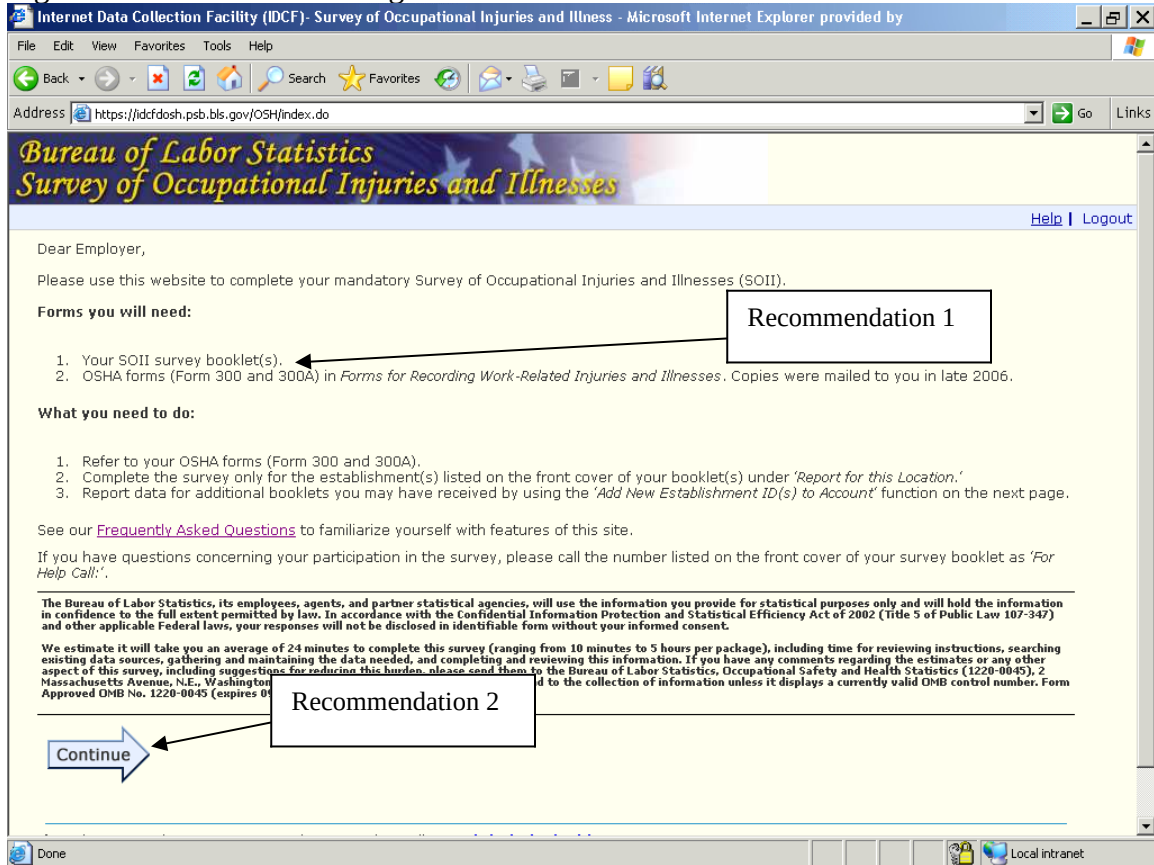
Why is there the *Change Respondent Info* button on the right-hand side of the page? It links to this page, so really it isn't needed and is confusing.

Recommendation 2: Editing Name and Email

Long term

Consider adding an edit on the *Name* and/or *Email* fields on the *Update* page. If changes are made to this information, users could be prompted to see if they are attempting to permanently switch their account to a new respondent. This could take the place of the check box at the bottom of the screen.

Figure 6: SOII Instruction Page



Recommendations

Recommendation 1: Delete all reference to survey booklets or forms

Short term

If the decision is made to send all SOII respondents only the 4-page instruction book that explains how to report on the Internet, the “**Forms You Will Need**” paragraph and the instruction about where to call for help that appears just above the privacy act information need to be revised, since respondents will not have the survey booklet. This applies for all of the survey screens.

Recommendation 2: Move the *Continue* arrow

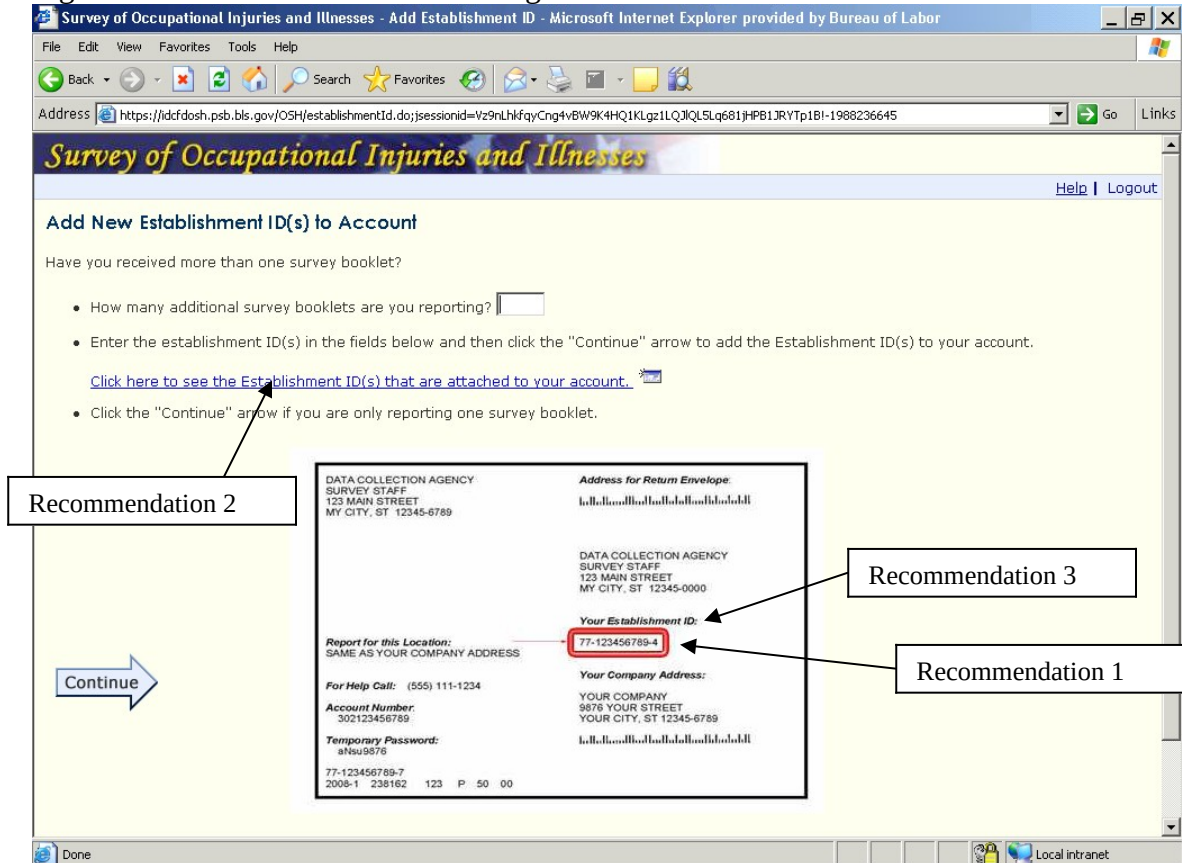
Long term

Consider moving the continue arrow to the bottom right-hand side of the screen. In our recent expert review, one reviewer argued that people will more naturally look at the bottom right side of the page when they finish reading the instructions. However, since other reviewers disagreed with this suggestion, we hope to be able to test this in a future eye-tracking study. A possible short-term solution would be to place the continue arrow in both locations.

ADD ESTABLISHMENT PAGE

As pointed out in the Fricker usability report, the wording on this screen (Figure 7) can lead to confusion in several possible ways. Users' actions and comments during that test also showed that the graphic on this page did not help respondents enough when they attempted to fill out the *Additional Establishment ID(s)* field. The size of the text in the current graphic is very small. We like the use of the graphic on this page, but believe that a call-out should be used to make the Establishment ID more readable (see Figure 7b).

Figure 7: Add New Establishment Page



Referring to the instructions on this page, respondents are faced with a basic usability dilemma with the first question, ***“Have you received more than one survey booklet?”*** because there is no place to provide an answer. Instead, the question, ***“How many additional survey booklets are you reporting?”*** is immediately posed.

As noted in a personal communication with Mario Turse, based on his past experience with help desk calls, the word “additional” in the first bullet has been shown to be a stumbling block for respondents, because most respondents will be reporting for only one location.

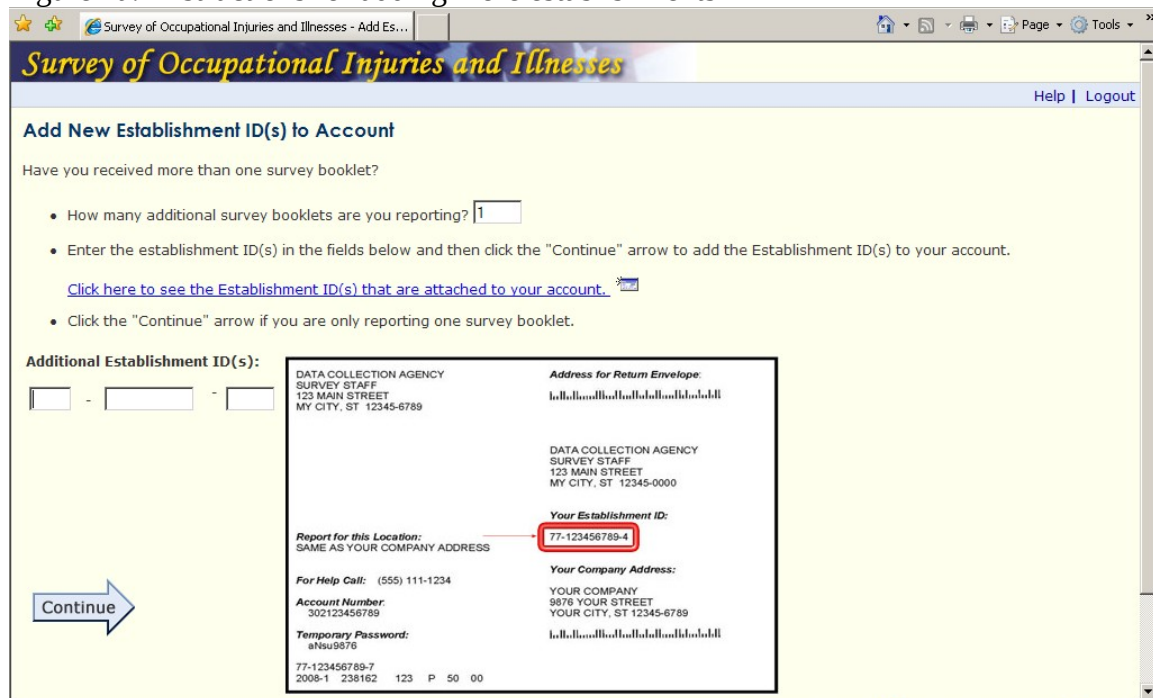
Even if a respondent received more than one instruction booklet, if it was the right number given his/her situation, the respondent might either try to skip this question or enter a zero, since he/she would believe there are no “additional” booklets.

Also, when the respondent first comes to this page, and reads the instruction, “Enter the establishment ID(s) in the fields below...” there are NO fields displayed below on the page. The entry fields for the additional establishment ID are not displayed until the respondent makes an entry in the field that asks, “How many additional survey booklets are you reporting?” This approach can easily confuse respondents .

Furthermore, the instructions pertinent to completing the question about the number of booklets (“How many additional survey booklets are you reporting?”) are listed below the question and entry field. Previous usability research has shown that respondents tend not to read instructions that follow an entry field. Relevant instructions should always come before or be placed next to the entry field.

In addition, once the person enters a non-zero in the survey booklet question, the instructions don’t change (see Figure 7a below). This is potentially confusing because part of the instructions apply to respondents who are reporting for only one establishment.

Figure 7a: Instructions for adding more establishments





To summarize, there are four main issues with this page:

1. The term ‘additional booklets’ is confusing without some contextual reference.
2. The *Additional Establishment ID(s)* entry field does not appear unless users click *Continue* or in some other way move the cursor out of the *How many booklets?* box.
3. Users attempt to enter the Establishment ID exactly as it is listed on the front of their survey booklet (including the prefix), which results in an error.
4. The instructions for completing the first question come after the data entry box.

Recommendations

Recommendation 1: Change the graphic that highlights the establishment ID *Short term*

Figure 7b. Recommendation - Use of a Call-out Box on Label Graphic, *Add New Establishment ID(s)* Page

DATA COLLECTION AGENCY SURVEY STAFF 123 MAIN STREET MY CITY, US 12345-0000	Address for Return Envelope:  DATA COLLECTION AGENCY SURVEY STAFF 123 MAIN STREET MY CITY, US 12345-0000
Your Establishment ID: 56- 000112110 - 9	Your Establishment ID:: 56- 000112110 - 9
Report for this Location SAME AS YOUR COMPANY ADDRESS	Your Company Address:
For Help Call: 800-555-1212	Company 9
Account Number: 302000112110	123 Main Street My City, WY 12353
Temporary Password: aNSu1242	
56-000112110 - 9 2007-1 485510 12 P 60 00	

Recommendation 2: Provide establishment information on this page *Short term*

Provide Establishment ID and company information on this page without requiring users to click on a link. This will provide immediate contextual information on the screen. Removing the link also reduces the amount of text on this page and improves readability. An alternative format for presenting this information is shown below in Figure 7c. The formatting in this example may also better direct users to click the *Continue* button after entering the number of additional booklets. Plus, this eliminates the problem of starting off with a question to respondents (“**Have you received more than one survey booklet?**”) for which there is no space to answer.

This recommendation was also mentioned in the Fricker Review report:

“Consider providing respondents with information about which account(s) they have registered and then give them the option of adding more booklets.”

Figure 7c: Recommendation – Change the Instructions for Adding New Establishments

Add New Establishment ID(s) to Account
You have registered to report data for the following establishment ID(s):

Establishment ID	Company Name	Unit Description
042192295-4	G W Hall & Son	Same as Your Company Address

Click the *Continue* arrow if you are only reporting for this one Establishment ID.

If you have more than one booklet to report:

- Enter the number of additional survey booklets you are reporting: _____
- Click the *Continue* arrow to add the Establishment ID(s) to your account.

Recommendation 3: Better establishment ID instructions

Short term

Another possible revision would be to include a note near the *Additional Establishment ID(s)* field that instructs users not to include the Establishment ID prefix or one that gives users an example of what they should enter. (Fricker usability report)

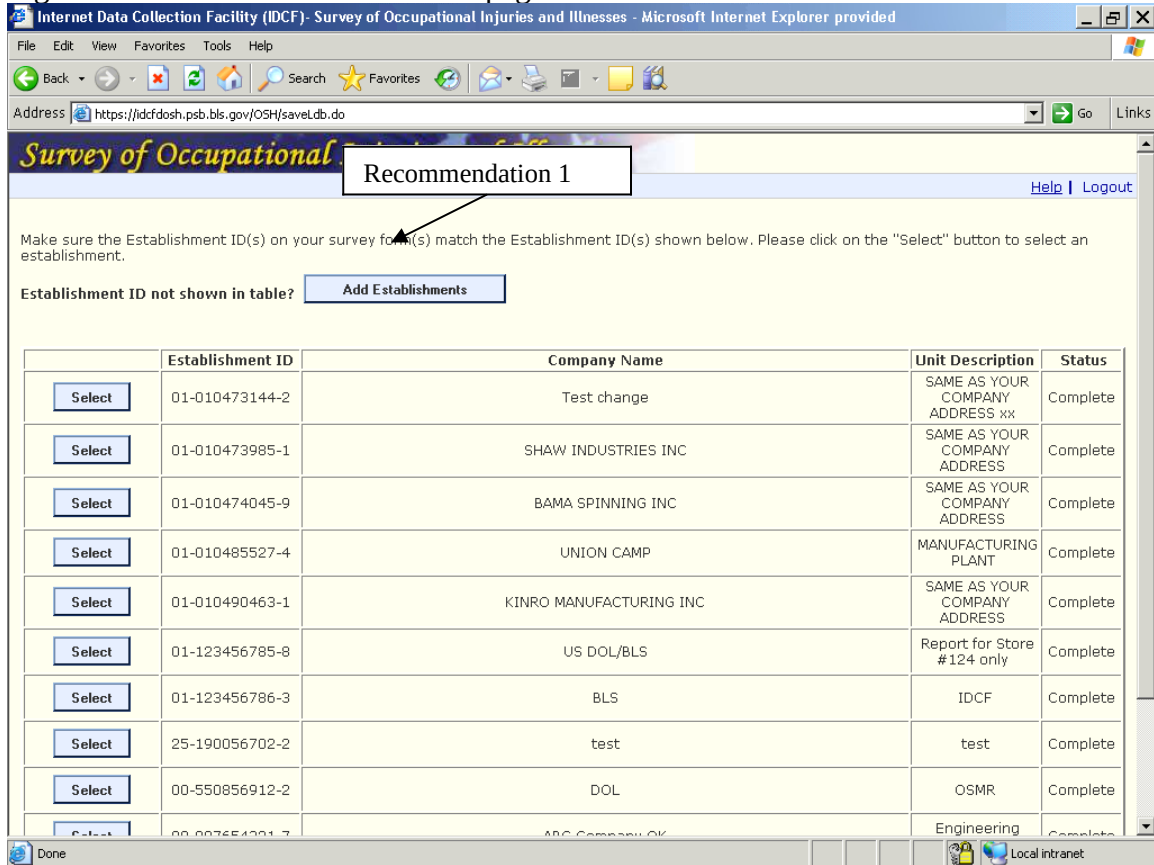
Recommendation 4: Eye-tracking study

Mid term

The SOII-IDCF development team should consider having OSMR conduct an eye-tracking study to determine if users are looking at the graphic on this page.

SOII LIST OF ESTABLISHMENTS SELECTION PAGE

Figure 8: Selection of establishment page



Recommendations

Recommendation 1: Delete references to SOII booklet

Short term

The first line of instructions needs to be changed if OCWC sends all respondents only the 4-page instruction booklet.

Recommendation 2: Delete for cases with only one establishment

Mid term

This page isn't needed if there is only one establishment for data entry. It should be deleted in those cases, as it will make the task easier for the respondent.

SECTION 1: ESTABLISHMENT INFO

As noted in the Fricker usability report, many users will attempt to enter commas to improve the readability of large numbers in response to Questions 1 and 2 (Figure 9).

Figure 9: Establishment Info Section 1 Page

The screenshot shows a web browser window with the title "Survey of Occupational Injuries and Illnesses - Part 1A - Microsoft Internet Explorer provided by Bureau of Labor Statistics". The page content includes a navigation bar with four numbered tabs: 1 Establishment Information (Section 1), 2 Injuries & Illnesses (Section 2), 3 Cases (Section 3), and 4 Data Review. Below the navigation bar, the page title is "Section 1. Establishment Information". The main content area contains a form for updating worksite location. The form includes a text input field with the value "0473144-2" and a link "Add comments". Below this is a section titled "Update Worksite Location" with a table of input fields: "Test change" (with value "208 33RD STREET NE"), "Test" (with value "Suite 43"), and "SAME AS YOUR COMPANY ADDRESS xx" (with value "FT PAYNE, AL 35967"). There is an "Update" button. Below the form is a section for entering 2007 data. It includes four questions: 1. Enter the annual average number of employees for 2007. (Input field with a link to a worksheet). 2. Enter the total hours worked by all employees for 2007. (Input field with a link to a worksheet). 3. Check any conditions that might have affected your annual average number of employees or total hours worked during 2007. (List of checkboxes: Strike or lockout, Shutdown or layoff, Seasonal work, Natural disaster or adverse weather conditions, Shorter work schedules or fewer pay periods than usual, Longer work schedules or more pay periods than usual, Other reason: [input field], Nothing unusual happened to affect our employment or hours figures). 4. Did you have ANY work-related injuries or illnesses during 2007? (Radio buttons for Yes and No). At the bottom left is a "Continue" button. Three callout boxes are overlaid on the page: "Recommendation 1" points to the "Add comments" link; "Recommendation 2" points to the input field for Question 1; "Recommendation 3" points to the input field for Question 2.

Recommendations

Recommendation 1: Relabel the “Add comments” link

Short term

As mentioned in the Fricker Review report, the “Add comments” link could be changed to something more descriptive, such as “Add comments (to explain unusual situations).”

Recommendation 2: Strip non-numeric characters in processing

Mid term

Allow users to enter commas in Question 1 (annual average number of employees), and Question 2 (hours worked). Strip out the commas during processing.

Recommendation 3: Renumber the page so that the *Update* button has a number by it.

Long term

This was mentioned in the Fricker Review report:

“The use of numbering, for example, 1, 2, 3, is a good approach for drawing attention to a desired entry and sequence of activities on the screen, but the “update worksite location” section is missing a number. So, although there is an *Update* button, users may not pay as much attention to this item as numbered items, or consider it part of the sequence of activities. This could be remedied by adding a number, as follows...”

This brings up the issue of whether the SOII web pages should attempt to exactly match the paper SOII booklet. When possible, we believe the IDCF instrument should take full advantage of the interactivity of the Web, even if it means causing some deviations from the paper form. However, this issue will require additional discussion.

From the Fricker usability report:

Figure X shows a screenshot of the *Worksheet for Estimating Total Hours Worked by All Employees*. Only one participant was able to use this worksheet to correctly report the *total hours worked*, although he initially entered the wrong hourly information for full-time workers. Rather than summing the number of hours to get an annual figure (as required by the worksheet), he simply entered ‘40’ in the full-time workers field. (He had previously calculated the part-time workers’ annual hours on paper, so he entered the correct information in ‘B.’) When the user went back to *Section 1*’s main page he recognized that the *total hours worked* figure was too low (“That’s not right.”). He returned to the worksheet, read the instructions for a second time, and only then understood that he was supposed to calculate an annual figure per full-time employee. He fixed his entry and successfully completed the task.

The remainder of the participants inaccurately reported *total hours worked* data. The most common mistakes users made were: (1) entering ‘40’ for full-time workers’ hours rather than calculating their annual hours, (2) miscalculating the annual hours for “other” employees (e.g., entering the weekly hours worked, multiplying by the number of pay periods rather than the number of weeks in a year, etc.), and (3) failing to report anything in ‘B’ (i.e., excluding part-time employees altogether).

Figure 10: Worksheet # 1 Page

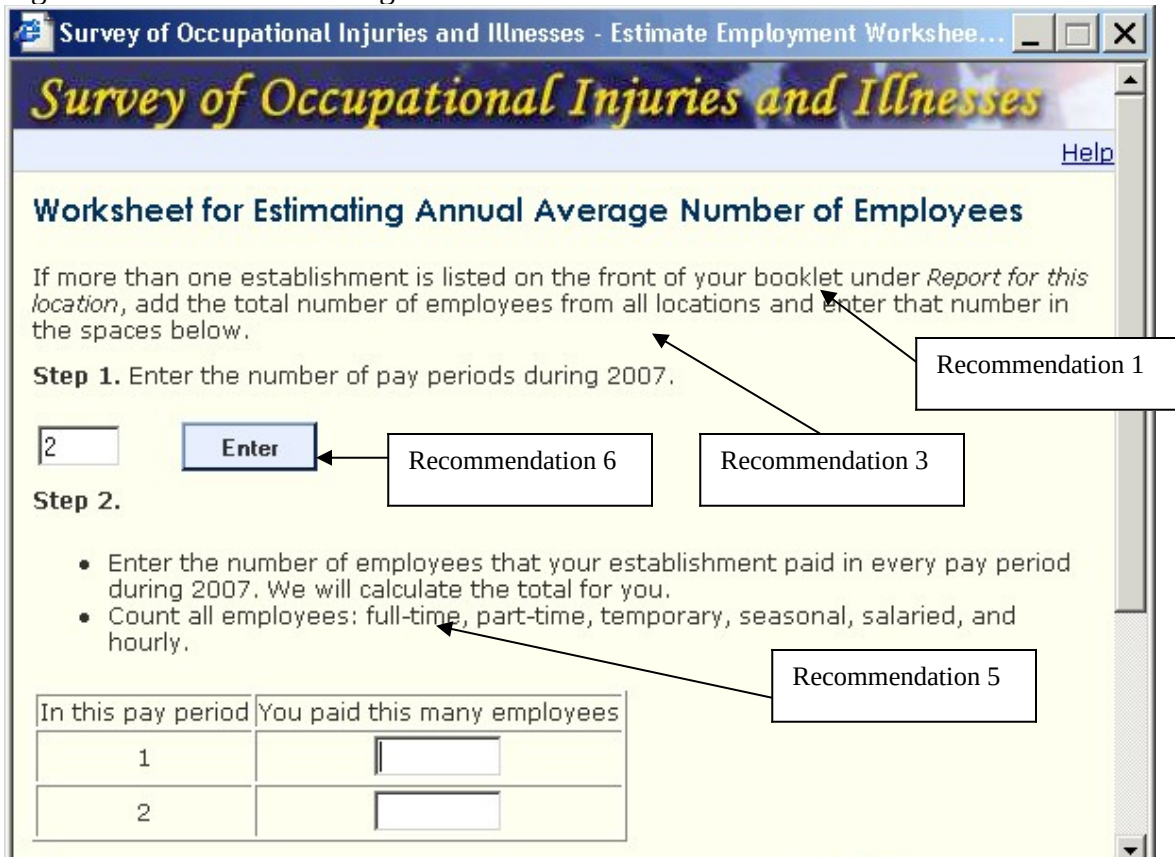


Figure 10a: Worksheet # 2 Page

The screenshot shows a worksheet titled "Worksheet for Estimating Total Hours Worked by All Employees" with a "Help" link in the top right. The worksheet is divided into three sections: A, B, and C. Section A, "Hours worked by full-time employees:", contains four input fields with the following instructions: "Enter the number of full-time employees", "Enter the number of hours generally worked by a full-time employee for a year", "Enter the number of overtime hours worked by full-time employees", and "Total hours for full-time employees". Section B, "Hours worked by other employees: (including part-time, temporary and seasonal)", contains one input field with the instruction "Enter the number of hours worked by all non-full-time employees including part-time, temporary, and seasonal". Section C, "Total hours worked by all employees:", contains one input field. A blue arrow labeled "Continue" is at the bottom left. Three callout boxes with arrows point to specific parts of the worksheet: "Recommendation 7" points to the first input field; "Recommendation 2" points to the second and third input fields; "Recommendation 4" points to the second input field.

Recommendations

There are several possible options for improving this worksheet.

Recommendation 1: Delete references to survey booklet

Short term

As with the rest of the SOII pages, references to the survey should be deleted if hard copies are not included in the initial mailing.

Recommendation 2: Revise Instructions and bold selected text (i.e., “annual” and “for a year”)

Short term

- Use “Total **annual** hours for full-time employees” in line 4 of Worksheet 2, section A.
- Also use “Enter the **annual** hours worked...” in section B.
- At the very least, bold “**for a year**” in the second line of the Worksheet 2, section A (Fricker usability report).

Recommendation 3: Move the instructions to where they will be used

Short term

The instruction above step 1 refers to step 2. It should be moved to step 2.

Recommendation 4: Provide example calculations

Short term

Next to the hours worked fields, provide examples of the type of calculations users should be doing.

“(e.g., 28 FT employees x 2,000 hours per year = 56,000 total FT hours)”

“(e.g., 10 PT employees x 500 hours per year = 5,000 total hours)”

Since the additional text likely will make the worksheet appear more cluttered, make the window larger and use more ‘white-space’ between fields/lines of the worksheet. (Fricker usability report)

Recommendation 5: Provide links to definitions

Mid term

Provide links to definitions that are potentially vague, such as “full-time,” and “employees.”

Recommendation 6: Enable the use of the *enter* key

Long term

People are used to entering a number in a data entry field and hitting the *enter* key in order to proceed. This functionality has been disabled on this page and the respondent has to click the *enter* button. Allowing the respondent to press the *Enter* key would simplify the task for some respondents.

Recommendation 7: Add space for typical or usual hours

Long term

Rather than requiring users to calculate *annual hours* for full-time employees themselves, add additional fields to this worksheet so users can provide (a) typical weekly hours and (b) usual weeks worked in a year. Let the worksheet do the annual hours calculations for the user. Break out section ‘B’ (i.e., *hours worked by other employees*) in a similar way. (Fricker usability report)

SECTION 2: SUMMARY OF INJURIES AND ILLNESSES

Figure 11: Summary of Injuries and Illnesses

Survey of Occupational Injuries and Illnesses - Part 1B - Microsoft Internet Explorer provided by Bureau of Labor Statistics

File Edit View Favorites Tools Help

Survey of Occupational Injuries and Illnesses Contact Information | Help | Logout

1 Establishment Information (Section 1) 2 Injuries & Illnesses (Section 2) 3 Cases (Section 3) 4 Data Review

Section 2. Summary of Work-Related Injuries and Illnesses, 2007
 Establishment ID: 01-010473144-2 [Add comments](#)

Refer to the OSHA Forms for Recording Work-Related Injuries and Illnesses (Forms 300 and 300A) for this location.

Instructions

- Complete this survey only for the location(s) listed under 'Report for this location' on the front of your survey booklet.
- If more than one establishment is listed under 'Report for this location' add up the numbers across all establishments and enter the total in the spaces below.
- Enter numbers only, omitting letters, symbols, decimals, and commas.
- If any total is zero on your OSHA Form 300A, enter "0" in that total's space below.
- The **total Number of Cases** recorded in G + H + I + J must equal the **total Injury and Illness Types** recorded in M.

Number of Cases

Total number of deaths (G) Total number of cases with days away from work (H) Total number of cases with job transfer or restriction (I) Total number of other recordable cases (J)

Number of Days

Total number of days away from work (K) Total number of days of job transfer or restriction (L)

Injury and Illness Types

Total number of... (M)

deaths from work restriction cases

(G) (H) (I) (J)

Number of Days

Total number of days away from work (K) Total number of days of job transfer or restriction (L)

Injury and Illness Types

Total number of... (M)


1. Injuries 4. Poisonings

2. Skin disorders 5. Hearing loss

3. Respiratory conditions 6. All other illnesses

If you have had any work-related deaths in 2007, please tell us where you assigned/classified each death within the list of items (M1) through (M6) provided under **Injury and Illness Types** above.

Injury and Illness Type	Number of Deaths
Injuries	<input type="text" value="1"/>
Skin Disorders	<input type="text" value="1"/>
Respiratory Conditions	<input type="text" value="1"/>



If you have questions or comments please send e-mail to: osh.helpdesk@bls.gov
 Version: 7.0
 URL: <https://dcdosh.psb.bls.gov/OSH/content/part1b.jsp>

Recommendation 1

Recommendation 2

Recommendations

Recommendation 1: Strip non-numeric characters in processing

Mid term

For instruction # 3, the system should be able to clean out any commas, letters, and symbols. Other IDCF instruments operate that way (for example, the CES). Doing this avoids the appearance of edit messages that may confuse respondents. This should be done for all SOII data entry pages.

Recommendation 2: Provide links to definitions

Mid term

There should be links to definitions for the terms “days away from work” and “restriction.”

SECTION 3: REPORTING CASES WITH DAYS AWAY FROM WORK

This page, along with the *Add Establishment Page*, should be revised. It is important to note that the “Reporting Cases with Days Away From Work Page” (RCDAW; Figure 12) has already been tested extensively. Although there have been some changes made to the page since September 2007 (see Figure 12a for an earlier version of this page), we believe that the current page continues to pose significant usability problems. In the interest of brevity, excerpts from the following reports are listed.

- Appendix D – recommendations on reporting cases with days away from work (from Fricker expert review report)
- Appendix E – recommendations on reporting cases with days away from work (from Fricker usability report)
- Appendix F – recommendations on reporting cases with days away from work (from Mockovak eye-tracking report)

Figure 12: Current RCDAW page

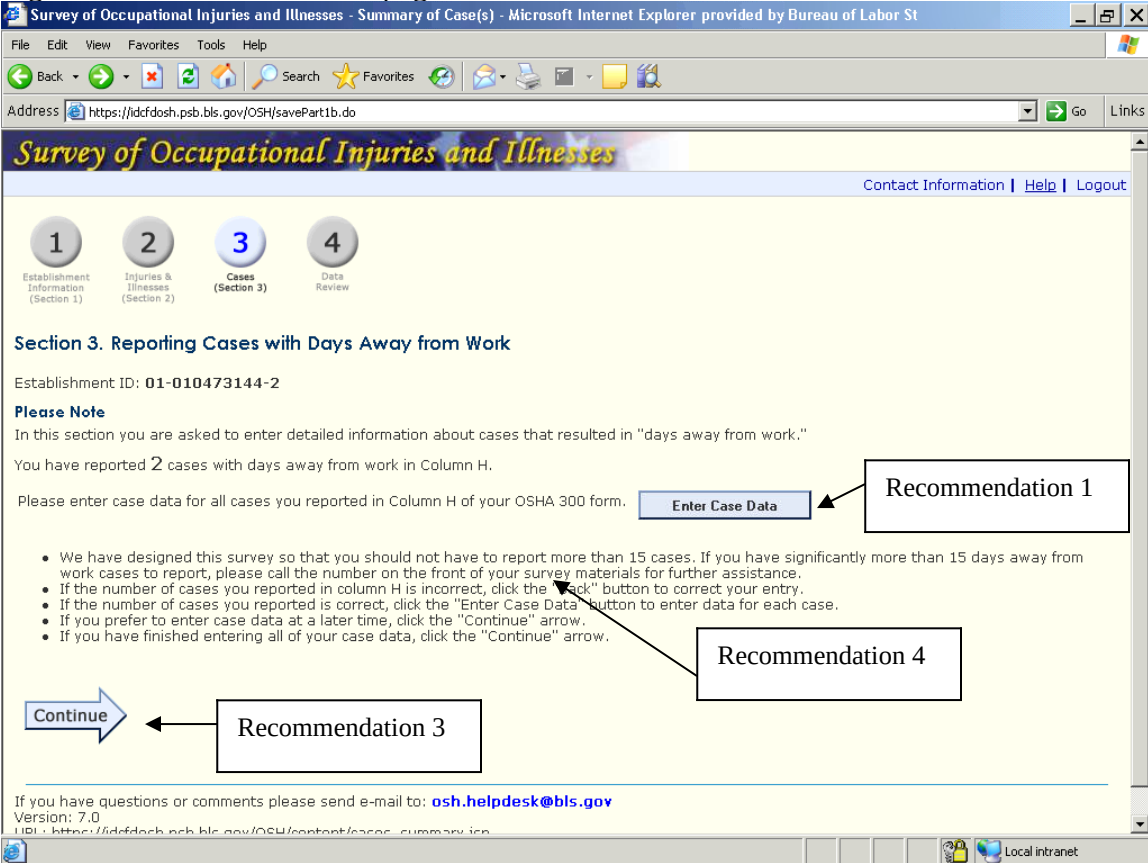
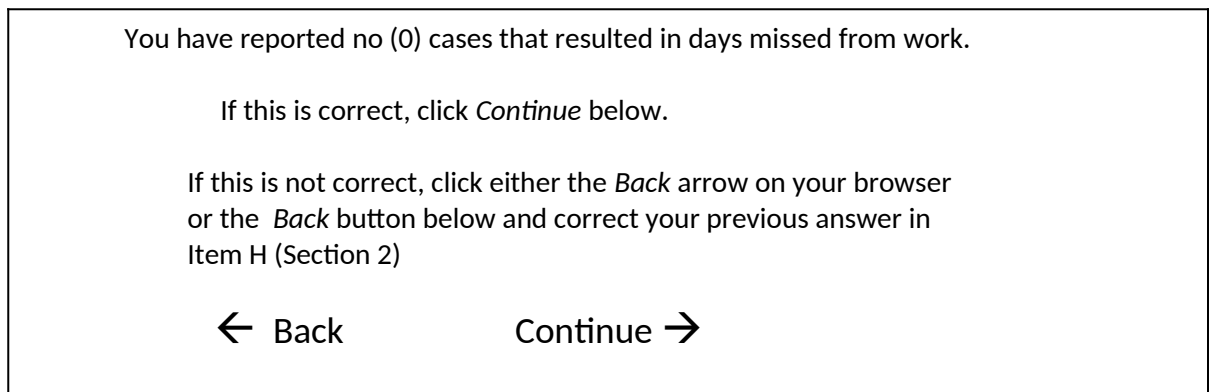


Figure 12a: September 2007 - RCDAW page



Ideally, it would not be necessary to display the RCDAW to respondents. The instrument will “know” based on entries in Part 2 if there are cases with "days away from work," i.e., cases that the respondent should provide detailed information about. We believe the maximum number of these cases is 30, with the mode about 2-3. However, it's important to note that a majority of respondents will have no cases to report. These respondents could be skipped automatically to the *Submit Data/Review* page, but since it's possible they made a keying error, it seems some type of confirmatory screen should appear in their path. This could be a very simple screen, maybe something like the following.

Figure 12c: RCDAW page for those respondents with no cases to report



The Fricker review report suggested different screens for respondents reporting no cases, those who reported 1-30 cases, and those who reported more than 30 cases. The instructions respondents need in these different scenarios are fundamentally different.

For those respondents who have cases to enter, they will see the RCDAW page as shown in Figure 12d or Figure 12e, and they have three choices:

1. Return to Part 2 to correct the entries (this will probably be a rare event, so we would put it at the bottom).

2. Enter data now (this probably should be the top choice, since it will be the most common by far).
3. Exit the page, proceed to *Review Data* page, and complete survey later (data have been saved as they've progressed through the instrument).

Figure 12d: Revised RCDAW page – Alternative 1



Figure 12d: Revised RCDAW page – Alternative 2



If respondents choose to enter data when this page appears, they will be taken to the *Detailed Info* page. When they are done entering data, the system should know if there are more cases to enter. If the respondents have no more data to enter, they should be taken to the *DAW Save Case* page.

Recommendations

Our main recommendation is to reformat this page (recommendation 4). Until this can be done, recommendations 1 through 3 should be implemented.

Recommendation 1: Fix the *Continue* and the *Enter Case Data* buttons

Short term

Fix the *Continue* and the *Enter Case Data* buttons. They go to different places, but the actions that result are not clear. Visually they are the same size and of equal weight. As noted in the Fricker usability report, respondents often skip over the *Enter Case Data* button.

Recommendation 2: Create a collaborative team

Mid term

A collaborative team should be formed to examine how the respondents and their data flow from this page through the rest of the survey. That way improvements could be tracked since it may take several iterations of the page to find the optimal flow and wording.

Recommendation 3: Move the *Continue* arrow

Long term

Consider moving the continue arrow to the bottom right-hand side of the screen. However, since other reviewers disagreed with this suggestion, we hope to be able to test this in a future eye-tracking study. A possible solution would be to place the continue arrow in both locations.

Recommendation 4: Reformat the page

Long term

Change the skip patterns and reformat the pages as discussed at length above. Again, this screen should be different for those with no DAW cases and those with cases. As note, a basic problem with this page is that it isn't immediately clear what respondents need to do on this page.

Figure 13: DAW Case information Page

Survey of Occupational Injuries and Illnesses

Contact Information | Help | Logout

Case with Days Away from Work

Establishment ID: 01-010473144-2

To complete the information below, you will need:

- Your completed copy of the Injury and Illness Investigation Report
- Your completed copies of the case, such as workers' compensation report, an accident report, an insurance form, or the Injury and Illness Investigation Report

Tell us about a 2007 work-related injury or illness ONLY if it resulted in days away from work.

Recommendation 1 points to the list of required documents.

Recommendation 2 points to the "Employee's name (column B)" field.

Recommendation 3 points to the "Date of injury or onset of illness (column D)" dropdowns.

Recommendation 5 points to the "Employee's race or ethnic background" section.

Recommendation 4 points to the "Time of event" dropdowns.

Employee's name (column B)

Job title (column C)

Date of injury or onset of illness (column D) MM DD YYYY

Number of days away from work (column K)

Number of days of job transfer or restriction (column L)

1. Select the category which best describes the employee's regular type of job or work: (optional)

- Office, professional, business, or management staff
- Sales
- Product assembly, product manufacture
- Repair, installation or service of machines, equipment
- Construction
- Other:
- Healthcare
- Delivery or driving
- Food Service
- Cleaning, maintenance of building, grounds
- Material handling (e.g. stocking, loading/unloading, moving, etc.)
- Farming

2. Employee's race or ethnic background: (optional-check one or more)

- American Indian or Alaska Native
- Asian
- Black or African American
- Hispanic or Latino
- Native Hawaiian or Other Pacific Islander
- White
- Not available

3. Employee's age: OR date of birth: MM DD YYYY

4. Employee's date hired: MM DD YYYY
OR select length of service at establishment when incident occurred:

- Less than 3 months
- From 3 to 11 months
- From 1 to 5 years
- More than 5 years

5. Employee's gender:

- Male
- Female

6. Time employee began work: hh : mm am pm

7. Time of event: hh : mm am pm OR Check if time cannot be determined

Event occurred: Before During After work shift

Recommendation 4 points to the "Time of event" dropdowns.


8. What was the employee doing just before the incident occurred?
Describe the activity as well as the tools, equipment, or material the employee was using. Be specific. Examples: "climbing a ladder while carrying roofing materials"; "spraying chlorine from hand sprayer"; "daily computer key-entry." (maximum entry of 250 characters)

9. What happened? Tell us how the injury or illness occurred.
Examples: "When ladder slipped on wet floor, worker fell 20 feet"; "Worker was sprayed with chlorine when gasket broke during replacement"; "Worker developed soreness in wrist over time." (maximum entry of 250 characters)

10. What was the injury or illness? Tell us the part of the body that was affected and how it was affected; be more specific than "hurt," "pain," or "sore."
Examples: "strained back"; "chemical burn, hand"; "carpal tunnel syndrome." (maximum entry of 250 characters)

11. What object or substance directly harmed the employee?
Examples: "concrete floor"; "chlorine"; "radial arm saw." If this question does not apply to the incident, leave it blank. (maximum entry of 250 characters)

Case Comments:



If you have questions or comments please send e-mail to: osh.helpdesk@bls.gov
 Version: 7.0
 URL: <https://idfdosh.psb.bls.gov/OSH/content/case.jsp>

Recommendations

Recommendation 1: Give the entry fields a clearer format

Short term

As stated in the Fricker Review report:

“To give the form a “cleaner” look, the entry fields could be displayed as follows:

Employee’s name (Column B)

Job title (Column C)

Employee’s name (Column B)

Date of injury or onset of illness (Column D)
mm/dd/yyyy

“There also is enough room to reference the specific form, as shown below:

Employee’s name (Column B, OSHA Form 300)

Recommendation 2: Links to definitions

Mid term

As recommended on other pages, there should be links for definitions, such as “onset of illness.” If respondents do not know what data are being requested, their data quality will be lower.

Recommendation 3: Improve the navigation among the data/month/year fields

Mid term

There are two problems with the implementation of the drop-down menus for the date/month/year fields. First, the tabbing order from the month field to the day field is messed up. Rather than moving from the month field to the day field when the tab key is pressed, the cursor goes to the ‘cleaning, maintenance of building, grounds’ item in section 1 on the page.

Second, the quick keys for the months could be improved. To demonstrate this, try tabbing to the month field from the ‘job title’ field and then typing “M” (for *May*), as many respondents are accustomed to do with date drop-down lists. Or, try typing “3” to get to *March*. Neither approach works. (You have to type in the number of the month, not the letter, and you have to type in the “0” for Jan – Sept.).

Recommendation 4: Number “Event occurred”

Long term

From the Fricker Review report:

“Is it possible to number the question between 7 and 8 (“Event occurred:”)? Otherwise, it might get missed.”

Again, the issue of whether or not the web pages have to match the SOII booklet should be revisited, especially since many respondents may not see the paper form.

Recommendation 5: Examine the race question

Long term

The race question should be changed to match the Census Bureau’s standards, which ask people to self-identify race with a check-all option.¹

¹ Taken from <http://www.census.gov/Press-Release/www/2001/raceqandas.html> :

Question: What are the race groups that federal agencies are to use to comply with the Office of Management and Budget’s guidance for civil rights monitoring and enforcement?

Answer: The categories (made available in OMB Bulletin No. 00-02, “Guidance on Aggregation and Allocation of Data on Race for Use in Civil Rights Monitoring and Enforcement”) to be used are:

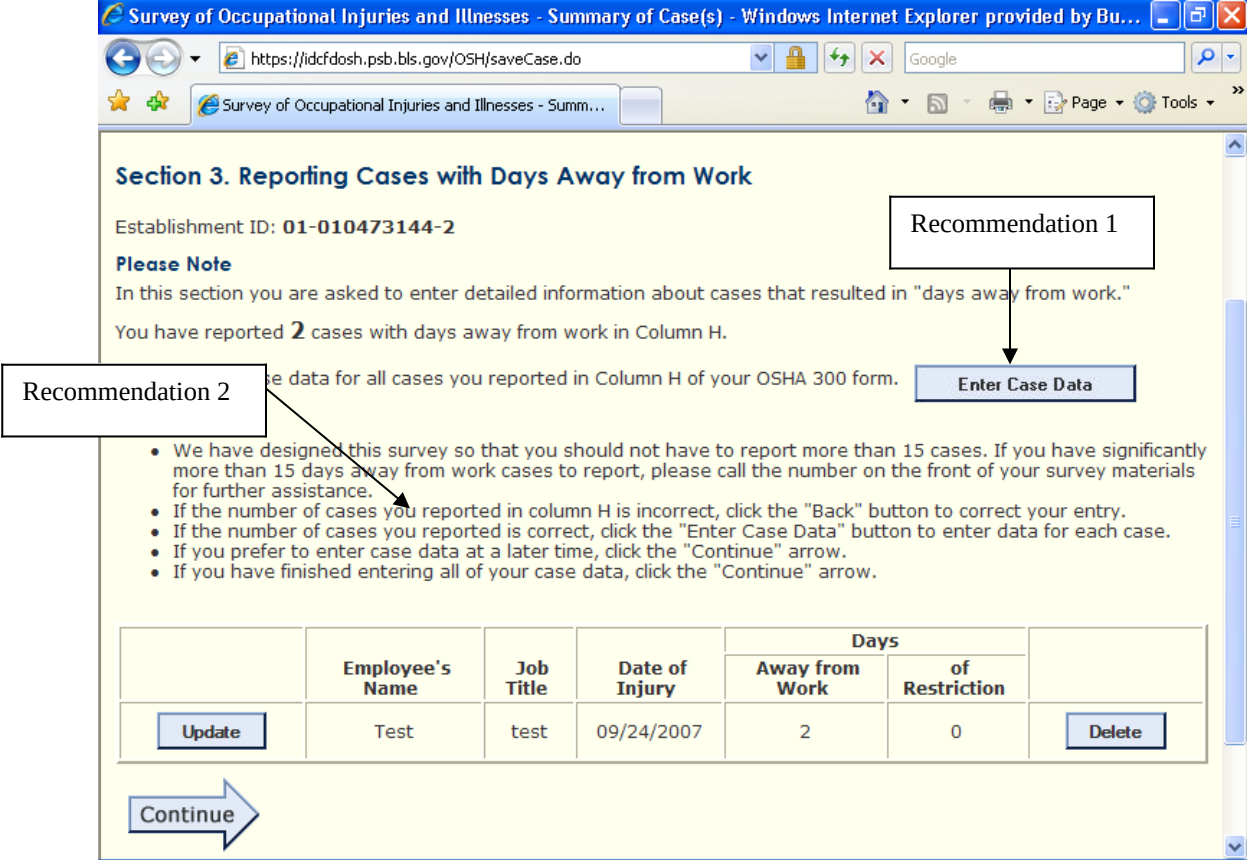
1. American Indian and Alaska Native
2. Asian
3. Black or African American
4. Native Hawaiian and Other Pacific Islander
5. White
6. American Indian and Alaska Native *and* White
7. Asian *and* White
8. Black or African American *and* White
9. American Indian and Alaska Native *and* Black or African American
10. >1 percent: Fill in if applicable with multiracial combinations greater than 1% of the population
11. Balance of individuals reporting more than one race
12. Total

The use of these categories, including the identification of specific two or more race combinations greater than 1 percent, is mandatory for civil rights monitoring and enforcement agencies. For more information, see www.whitehouse.gov/omb/bulletins/b00-02.html

SECTION 3: DAYS AWAY FROM WORK (DAW) SAVE CASE PAGE

This page suffers from the lack of formatting of buttons and unclear instructions as on the RCDAW page. To begin, it isn't clear that this is a summary page that shows the cases that have been entered. It also isn't clear that respondents need to click the *Enter Case Data* page to enter their cases they have not finished.

Figure 14: DAW Save Case Page



The revised *DAW Save Case Page* should look something like the example shown below. This is very similar to the suggestions made in the Fricker Review report.

Figure 14a: Revised *DAW Save Case Page*

Section 3. Entering Detailed Information about Cases With Days Away from Work

As shown in the table below, you have entered information for 2 of 3 cases.

- Click here to enter information for additional cases now
- Click *Exit* below, if you would like to enter this information later

Summary of Cases Entered						
	Employee's Name	Job Title	Date of Injury	Days		
				of Restriction	away from work	
<i>Update</i>	Joy	Engineer	12/10/2007	1	1	<i>Delete</i>
<i>Update</i>	James	QA	12/12/2007	0	1	<i>Delete</i>

Exit →

For the page in Figure 14a, if respondents want to enter the data now for the additional cases, they would return to the *Detailed Info* page/section. They could also click *Exit* to complete the form later. When they have no more cases to enter, the system should take them automatically to the *Submit Data/Review* page.

Recommendations

Recommendation 1: Move the *Enter Case Data* button

Short term

It has been noted per personal communication with Mario Turse that respondents have to click the “enter case data” button to enter the next case after the first one is entered. This is not intuitive. At a minimum, the text on the button should read “enter information for additional cases now”

Recommendation 2: Revise the page

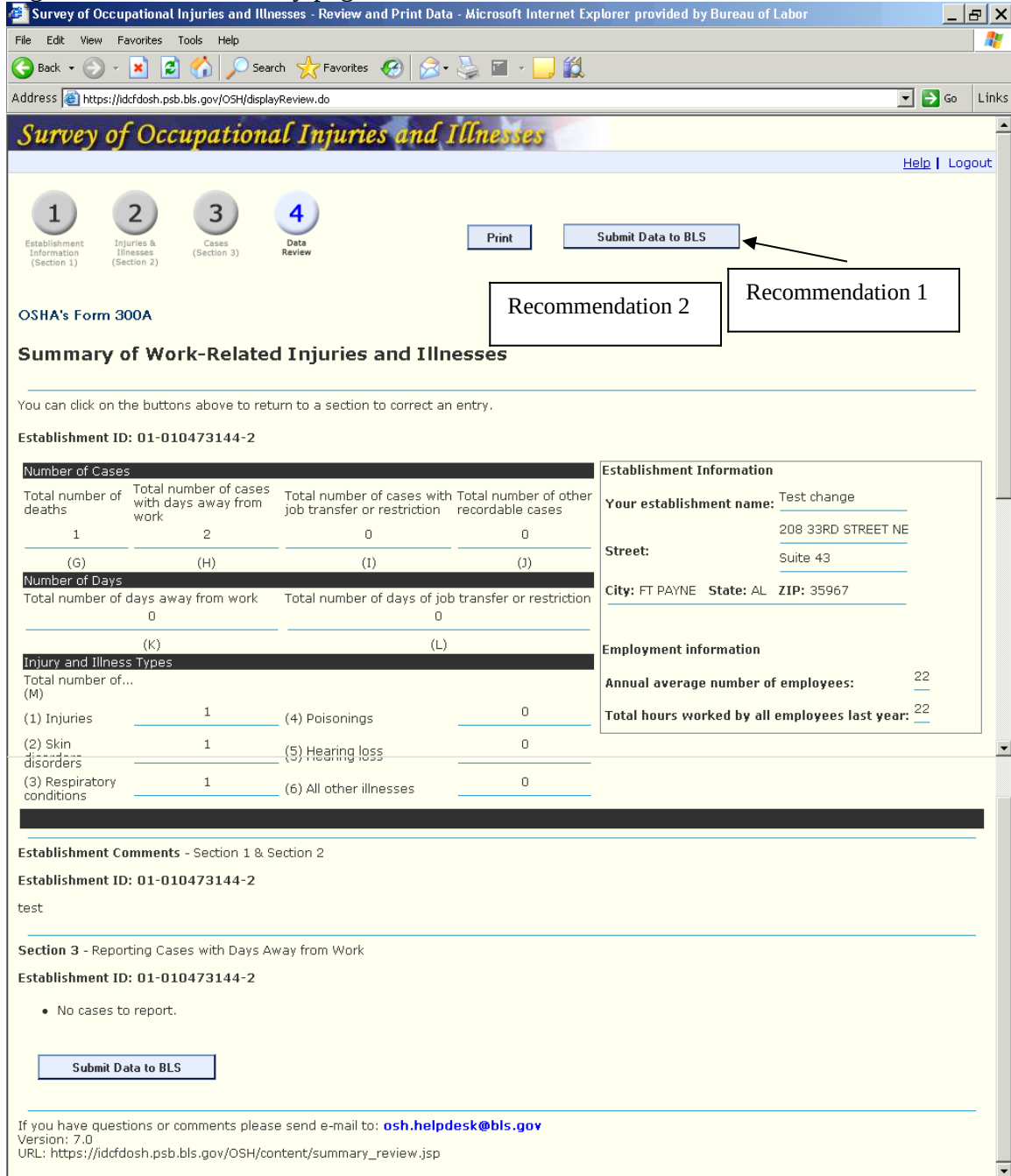
Long term

Revise the page to that shown in Figure 14a.

SOII SUMMARY PAGE

We like this page. The use of formatting makes it very clear what is being summarized.

Figure 15: SOII Summary page



Recommendations

Recommendation 1: Change the Submit button

Short term

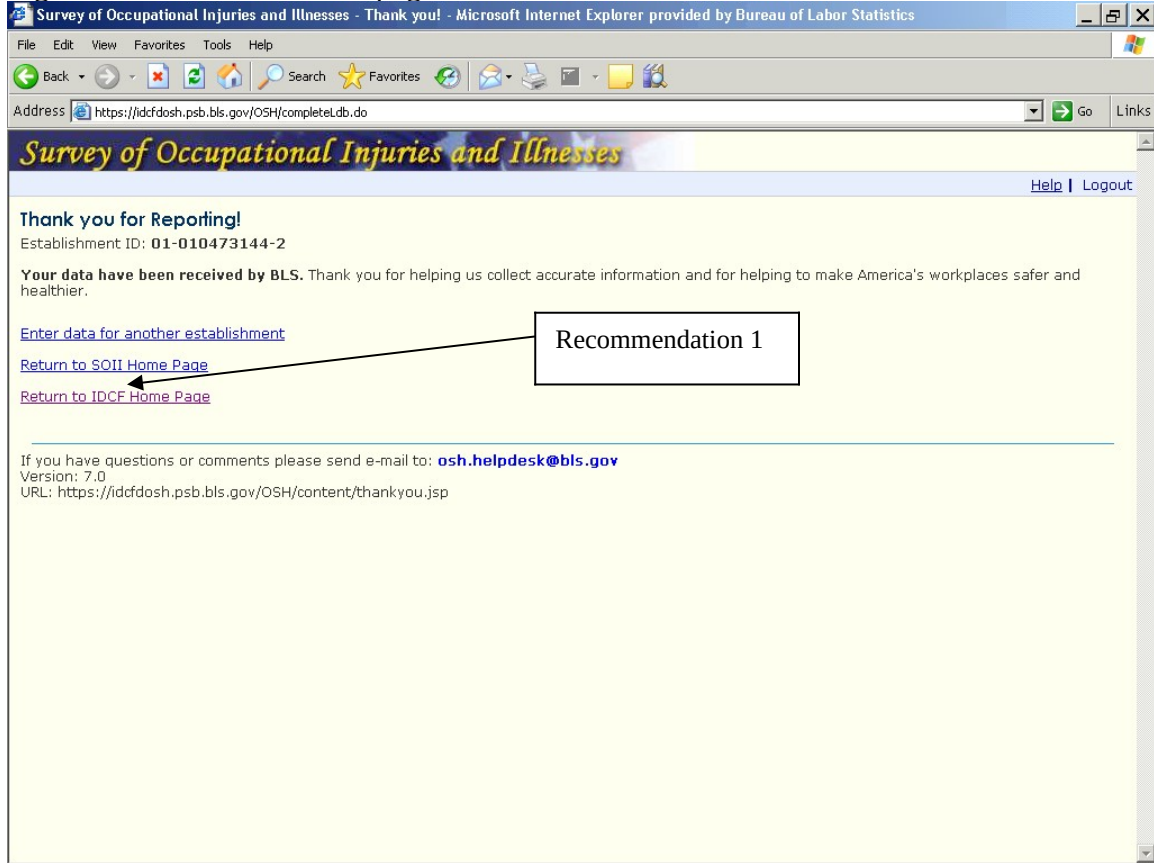
Visually, the “submit data to BLS” has the same weight as the “print” button, yet it is much more important. It should be larger.

Recommendation 2: Create a link or instructions for adding another establishment.

Mid term

It's unclear what respondents should do if they need to enter another establishment. There needs to be a link or instructions for adding or reporting another establishment.

Figure 16: Data submission page



Recommendations

Recommendation 1: Spell out IDCF

Short term

For the last link, many respondents will not know what “IDCF” stands for. It should be spelled out.

Recommendation 1: Collaborative Research Team

Given the number and range of issues that remain in the SOII instrument, it would make sense to form a team to address them on a systematic basis. OSMR would be willing to work with OFO to create a long-term research agenda for the SOII.

Recommendation 2: Usability Testing

This could be started in calendar year 2009. The first area to focus on would be the *Add Establishment ID* page. The testing should include eye-tracking research.

We could recruit from the general population for testing in OSMR's lab. This wouldn't be as time-consuming as using actual respondents at their places of business, but remote testing of actual SOII respondents would be another option (eye-tracking research is not possible with remote testing).

Recommendation 3: Help Desk Ticket Analysis

OSMR briefly examined some help desk tickets sent to OSH.helpdesk. However, in order to know more about respondents' issues with the IDCF Gatekeeper and the IDCF SOII instrument, a systematic analysis of these tickets should be performed.

Recommendation 4: Analyze Web Page Logs

If possible, it would be worthwhile to examine web page logs to summarize the behaviors of respondents as they complete the SOII instrument. For example, are there pages where a significant number of respondents exit the survey? Are edit messages appearing with great frequency? This analysis would provide additional information about pages that are causing problems.

Recommendation 5: Update Help System

The help system, especially the SOII Help Index, is difficult to use. Users who have questions about definitions would probably rather give up than search through the cumbersome SOII Help Index. This directly affects data quality, as only when respondents are knowledgeable about what's being asked of them, can they provide the correct data. Sample screens from the existing help system are shown in Figures 17 and 18.

Figure 17: SOII Help Index

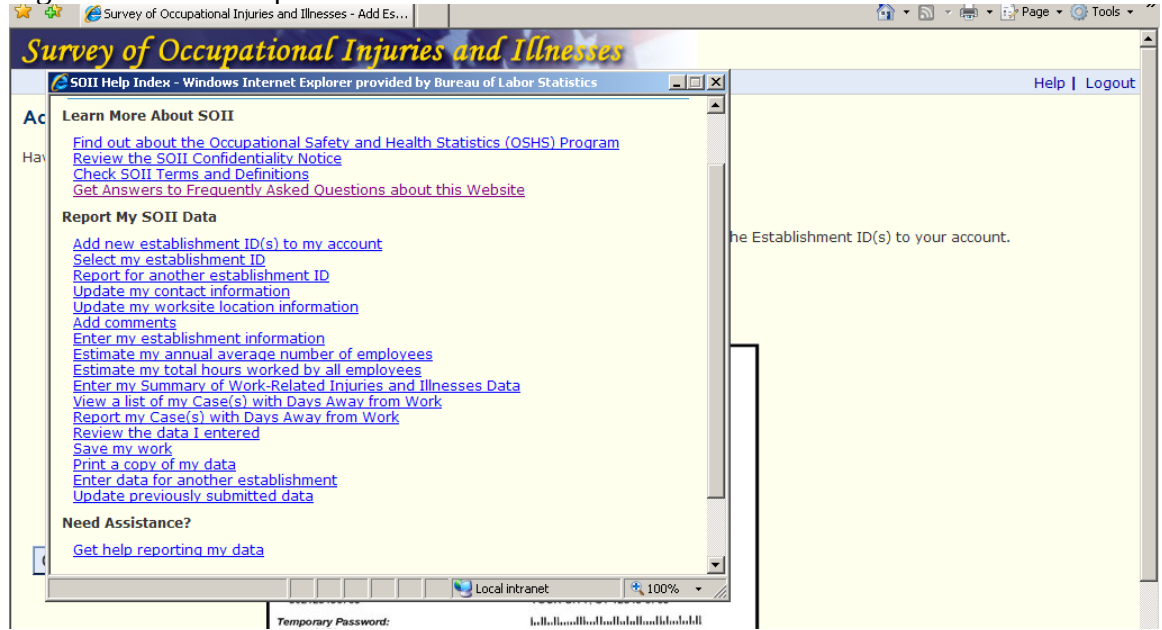
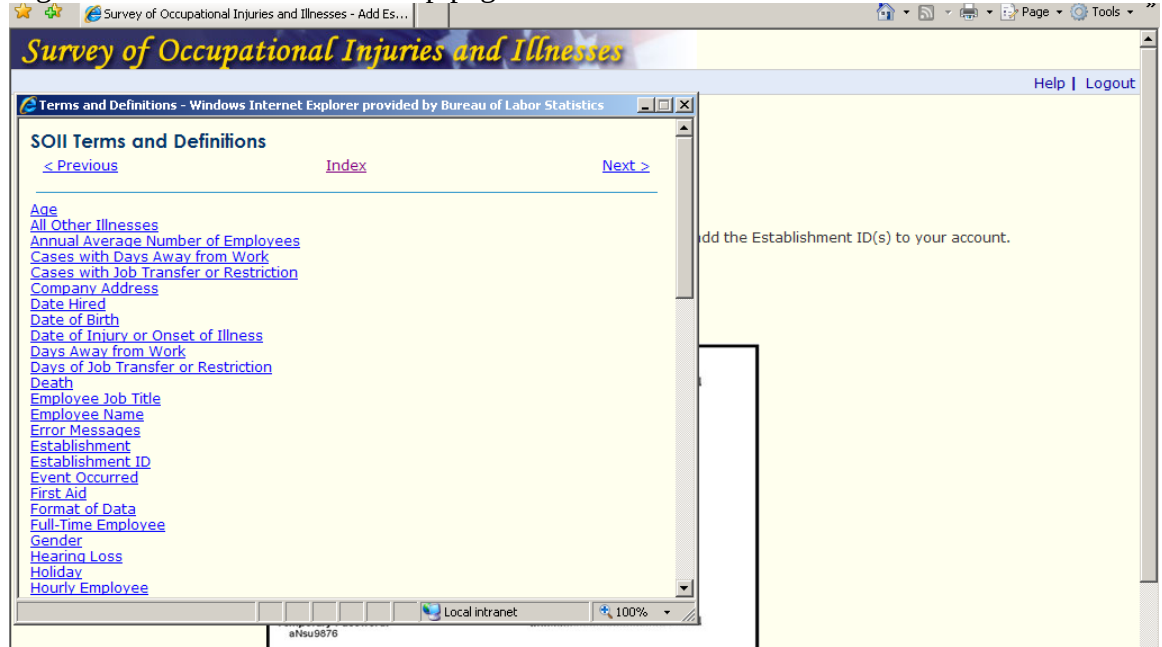


Figure 18: SOII Definitions Help page



APPENDIX A
SUMMARY OF RECOMMENDATIONS

RECOMMENDATIONS BY PRIORITY, SORTED BY PAGE			
Priority	Web Page Name	Recommendation	Row #
Short term	All pages	Check for text that refers to “survey booklets” or visuals of survey booklets since they will or are being phased out	1
Mid term	IDCF Logon Page	Improving the readability of account numbers	2
Short term	IDCF Logon Page	Revise the gatekeeper message when someone tries to register twice with the same email	3
Mid term	IDCF Create Password Page	Move the security question items	4
Long term	IDCF Create Password Page	Create a password page working team	5
Short term	IDCF Account Confirmation Page	Abbreviation of IDCF	6
Short term	IDCF Account Confirmation Page	Change wording of screen	7
Mid term	IDCF Home Page	One button for changing respondent info	8
Long term	IDCF Home Page	Don’t require the respondent to select the survey, if only one is listed	9
Mid term	Update Respondent Information Page	Delete the Change Respondent Info button	10
Long term	Update Respondent Information Page	Editing Name and Email	11
Short term	SOII Instruction Page	Delete all reference to survey booklets or forms	12
Long term	SOII Instruction Page	Move the Continue arrow	13
Short term	Add New Establishment Page	Change the graphic that highlights the establishment ID	14
Short term	Add New Establishment Page	Provide establishment information on this page	15
Short term	Add New Establishment Page	Better establishment ID instructions	16
Mid term	Add New Establishment Page	Eye-tracking study	17

RECOMMENDATIONS BY PRIORITY, SORTED BY PAGE			
Priority	Web Page Name	Recommendation	Row #
Short term	Selection of establishment page	Delete references to SOII booklet	18
Mid term	Selection of establishment page	Delete for cases with only one establishment	19
Short term	Establishment Info Section 1 Page	Relabel the “Add comments” link	20
Mid term	Establishment Info Section 1 Page	Strip non-numeric characters in processing	21
Long term	Establishment Info Section 1 Page	Renumber the page so that the Update button has a number by it.	22
Short term	Worksheets	Delete references to survey booklet	23
Short term	Worksheets	Revise Instructions and bold selected text (i.e., “annual” and “for a year”)	24
Short term	Worksheets	Move the instructions to where they will be used	25
Short term	Worksheets	Provide example calculations	26
Mid term	Worksheets	Provide links to definitions	27
Long term	Worksheets	Enable the use of the enter key	28
Long term	Worksheets	Add space for typical or usual hours	29
Mid term	Summary of Injuries and Illnesses	Strip non-numeric characters in processing	30
Mid term	Summary of Injuries and Illnesses	Provide links to definitions	31
Short term	Current RCDAW page	Fix the Continue and the Enter Case Data buttons	32
Mid term	Current RCDAW page	Create a collaborative team	33
Long term	Current RCDAW page	Move the Continue arrow	34
Long term	Current RCDAW page	Reformat the page	35
Short term	DAW Case information Page	Give the entry fields a clearer format	36
Mid term	DAW Case information Page	Links to definitions	37
Mid term	DAW Case information Page	Improve the navigation among the data/month/year fields	38
Long term	DAW Case information Page	Number “Event occurred”	39
Long term	DAW Case information Page	Examine the race question	40
Short term	DAW Save Case Page	Move the Enter Case Data button	41

RECOMMENDATIONS BY PRIORITY, SORTED BY PAGE

Priority	Web Page Name	Recommendation	Row #
Long term	DAW Save Case Page	Revise the page	42
Short term	SOII Summary page	Change the Submit button	43
Mid term	SOII Summary page	Create a link or instructions for adding another establishment.	44
Short term	Data submission page	Spell out IDCF	45
Long term	Global	Collaborative Research Team	46
Long term	Global	Usability Testing	47
Long term	Global	Help Desk Ticket Analysis	48
Long term	Global	Analyze Web Page Logs	49
Long term	Global	Update Help System	50

RECOMMENDATIONS BY PRIORITY, SORTED BY PRIORITY			
Priority	Web Page Name	Recommendation	Row #
Short term	Add New Establishment Page	Change the graphic that highlights the establishment ID	1
Short term	Add New Establishment Page	Provide establishment information on this page	2
Short term	Add New Establishment Page	Better establishment ID instructions	3
Short term	All pages	Check for text that refers to “survey booklets” or visuals of survey booklets since they will or are being phased out	4
Short term	Current RCDAW page	Fix the Continue and the Enter Case Data buttons	5
Short term	Data submission page	Spell out IDCF	6
Short term	DAW Case information Page	Give the entry fields a clearer format	7
Short term	DAW Save Case Page	Move the Enter Case Data button	8
Short term	Establishment Info Section 1 Page	Relabel the “Add comments” link	9
Short term	IDCF Account Confirmation Page	Abbreviation of IDCF	10
Short term	IDCF Account Confirmation Page	Change wording of screen	11
Short term	IDCF Logon Page	Revise the gatekeeper message when someone tries to register twice with the same email	12
Short term	Selection of establishment page	Delete references to SOII booklet	13
Short term	SOII Instruction Page	Delete all reference to survey booklets or forms	14
Short term	SOII Summary page	Change the Submit button	15
Short term	Worksheets	Delete references to survey booklet	16
Short term	Worksheets	Revise Instructions and bold selected text (i.e., “annual” and “for a year”)	17
Short term	Worksheets	Move the instructions to where they will be used	18

RECOMMENDATIONS BY PRIORITY, SORTED BY PRIORITY			
Priority	Web Page Name	Recommendation	Row #
Short term	Worksheets	Provide example calculations	19
Mid term	Add New Establishment Page	Eye-tracking study	20
Mid term	Current RCDAW page	Create a collaborative team	21
Mid term	DAW Case information Page	Links to definitions	22
Mid term	DAW Case information Page	Improve the navigation among the data/month/year fields	23
Mid term	Establishment Info Section 1 Page	Strip non-numeric characters in processing	24
Mid term	IDCF Create Password Page	Move the security question items	25
Mid term	IDCF Home Page	One button for changing respondent info	26
Mid term	IDCF Logon Page	Improving the readability of account numbers	27
Mid term	Selection of establishment page	Delete for cases with only one establishment	28
Mid term	SOII Summary page	Create a link or instructions for adding another establishment.	29
Mid term	Summary of Injuries and Illnesses	Strip non-numeric characters in processing	30
Mid term	Summary of Injuries and Illnesses	Provide links to definitions	31
Mid term	Update Respondent Information Page	Delete the Change Respondent Info button	32
Mid term	Worksheets	Provide links to definitions	33
Long term	Current RCDAW page	Move the Continue arrow	34
Long term	Current RCDAW page	Reformat the page	35
Long term	DAW Case information Page	Number "Event occurred"	36
Long term	DAW Case information Page	Examine the race question	37
Long term	DAW Save Case Page	Revise the page	38

RECOMMENDATIONS BY PRIORITY, SORTED BY PRIORITY			
Priority	Web Page Name	Recommendation	Row #
Long term	Establishment Info Section 1 Page	Renumber the page so that the Update button has a number by it.	39
Long term	IDCF Create Password Page	Create a password page working team	40
Long term	IDCF Home Page	Don't require the respondent to select the survey, if only one is listed	41
Long term	SOII Instruction Page	Move the Continue arrow	42
Long term	Update Respondent Information Page	Editing Name and Email	43
Long term	Worksheets	Enable the use of the enter key	44
Long term	Worksheets	Add space for typical or usual hours	45
Long term	Global	Collaborative Research Team	46
Long term	Global	Usability Testing	47
Long term	Global	Help Desk Ticket Analysis	48
Long term	Global	Analyze Web Page Logs	49
Long term	Global	Update Help System	50

APPENDIX B PORTIONS OF SOII-IDCF USABILITY TESTING REPORT

3.2 Gatekeeper Issues

Getting to IDCF

On each task, users were provided the URL they would need to log on and begin reporting their SOII data (<https://idcft.bls.gov/>).² The default start page for the first task was Google.com, and several users typed the IDCF URL into the Google search box. The search results did not return links to the IDCFT site, and the users spent time paging through the results before the facilitator intervened. (It is worth noting that Google fails to return an IDCF link if users type in the URL for the production site (<https://idcf.bls.gov/>)). Some users will type in a URL in a search box rather than in their browser's address bar, and Google typically returns a link to that website.

When users did attempt to type in the IDCF URL in the address bar, several issues occurred. The most common problem was that users were re-directed to the BLS Public Website (<http://www.bls.gov>) despite typing in the correct URL. This occurred for six out of the eight participants on at least half of the tasks. In addition, one user failed to include the "s" in <https://>. He read and understood the resulting "404" error message and was able to fix the problem/get to IDCF.

IDCF Logon

In general, users were able to log on to IDCF without significant problems using their account numbers and either their temporary and permanent passwords. One user complained about the length and composition of the account number ("Oh, it's so long. How many zeros are there? Three? Four?"). Two users initially typed in their temporary password instead of their permanent password when re-entering the site, but they saw the resulting error message and were successful on their second logon attempt.

New User Information Page

Most respondents (6 out of 8 users) had no difficulties on this page. Two users made minor errors (e.g., entering a 3-digit rather than a 4-digit zip code extension, using dashes in the phone number field) that generated system edit/error messages. Both users saw the resulting error messages and were able to fix the problems on their next attempt.

Permanent Password Creation

None of the participants were able to create a valid permanent password on their first attempt. Half of the participants initially did not read the password criteria at all, and the other half quickly skimmed this information but did not attend to the criteria box functionality (i.e., green checks). Two users avoided getting an error message on this screen because they realized that their password was invalid when they could not select a *Security Question* and were able to fix the problem before hitting *Continue*. The remaining participants received at least one error message. Four failed to meet the password requirements, attempted to select a *Security Question* then clicked *Continue* anyway, and were able to fix the password on their second attempt. Two participants failed to meet password requirements and/or select a *Security Question* on multiple attempts, and the facilitator had to intervene. Both of these users indicated that they felt

² This was the URL for the Independent Test site, not the production site.

the criteria were too complicated, and that they were frustrated and would have quit if it had been an actual attempt to use the system.

IDCF Account Confirmation Page

One user expressed confusion about the phrase “permanent IDCF account” that appears in the first sentence on this page. “What is ‘IDCF’? ‘IDCF’ doesn’t mean anything to me—is that my SOII account?” He suggested that we at least write out “Internet Data Collection Facility (IDCF).” No other issues arose on this page.

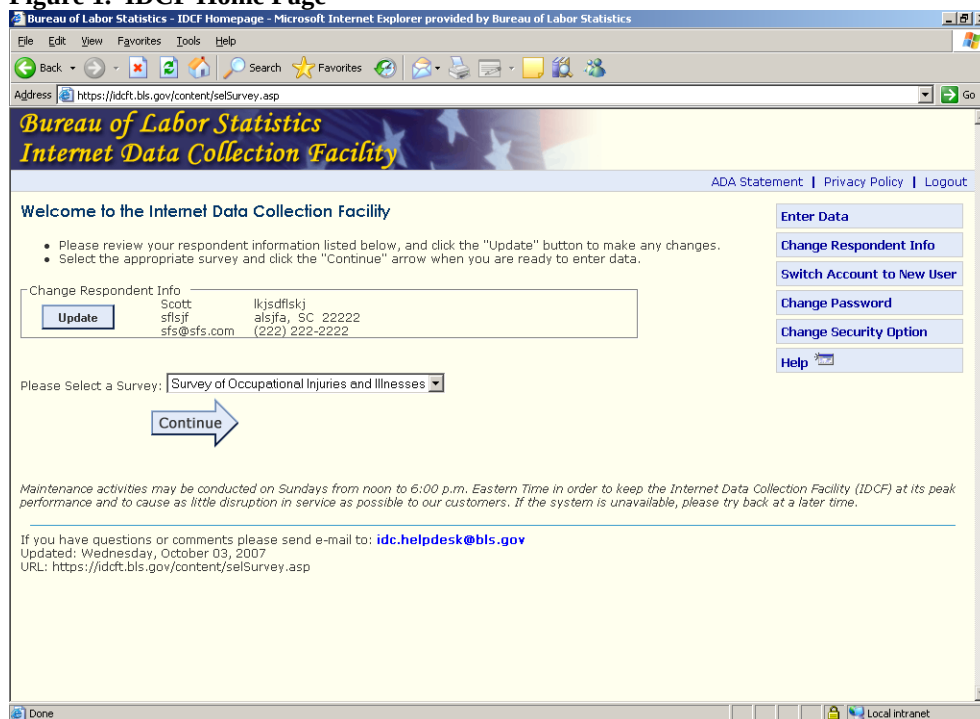
IDCF Home Page

All participants were successful at getting to the SOII instrument from this page. Seven clicked the *Continue* button and one used the *Enter Data* link in the Gatekeeper menu.

Switching Account to New User

Only one user completed this task as intended—i.e., by clicking the *Switch Account to New User* link on IDCF home page (see Figure 1 below). Four participants used the *Update* button to enter in the new user information; one used the *Change Respondent Information* link. During debriefing, the latter respondent said that he had focused on the horizontal menu on the IDCF home page, and selected the first link that appeared relevant (*Change Respondent Info* appears above the *Switch Account to New User* link). He indicated that the first two words of that link (i.e., “change respondent”) had caught his attention the most. He asked, “What would happen if I had used the *Change Respondent* approach and just entered in entirely different contact information—would that have accomplished the same thing as using the *Switch User* page?” When we explored the *Switch* page, he said that he would have expected it to be blank—that is, that he would fill in the new user information only, and not be presented with any of his own contact information.

Figure 1. IDCF Home Page



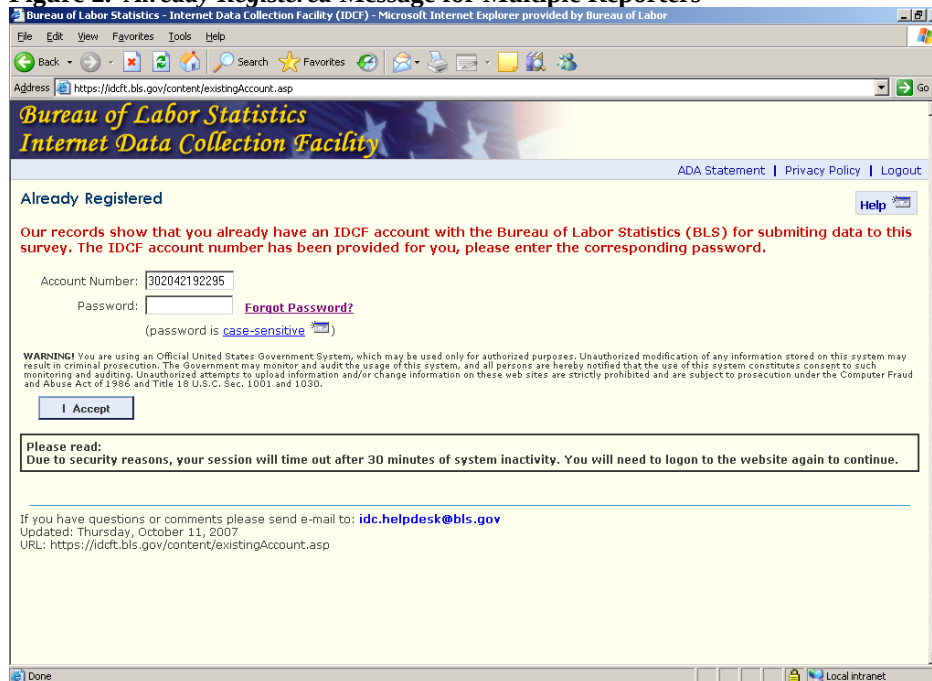
One user logged onto the system and click past the IDCF home page altogether (i.e., didn't notice the *Switch Account to New User* link). After searching in the SOII instrument for about 30 seconds for some way to change her contact information there, she logged off and then back on to the system. When she got to the IDCF home page, she clicked on the *Update* button rather than the *Switch Account to New User* link, and entered the new user information there.

Attempting to Register For a Second SOII Account Using the Same Email Address

Task 3 was designed in part to test the effectiveness of a new Gatekeeper error message that results when respondents attempt to register for more than one SOII-IDCF account using their same email address (see Figure 2).

Seven of the eight participants read and understood the resulting error message and were successful in logging on to their existing account on their first attempt. One user read the first half of the Gatekeeper error message out loud but failed to read the part that indicated that he needed to use his permanent password. He attempted to enter in the temporary password he had originally used for that account, and received another error message. He re-read the message more carefully and said, "Oh, *that* password. I didn't read it [the message] all the way through the first time." He was able to get into his existing account on his next attempt.

Figure 2. Already Registered Message for Multiple Reporters



APPENDIX C
PAGES WITH LITTLE OR NO CHANGES

IDCF CHECK EMAIL PAGE

Bureau of Labor Statistics
Internet Data Collection Facility

ADA Statement | Privacy Policy | Logout

Check Email Address

Help

Please Enter and Confirm your email address below.

Email Address of Person Completing this Form (* Required Field)

*Email

*Confirm Email

[Continue](#)

If you have questions or comments please complete and submit help request form: [Help Request Form](#)

Updated: Wednesday, September 10, 2008
URL: https://idcdf.psb.bls.gov/content/checkEmail.asp

IDCF NEW USER INFORMATION PAGE

Bureau of Labor Statistics
Internet Data Collection Facility

ADA Statement | Privacy Policy | Logout

Step 1 of 3: Enter New User Information

Help

Please complete the items below.

Name & Address of Person Completing this Form (* Required Field)

*Your Name

Your Job Title

*Your Company Name

*Address

*City

*State *Zip Code

*Telephone Ext Fax

[Continue](#)

If you have questions or comments please complete and submit help request form: [Help Request Form](#)

Updated: Wednesday, September 10, 2008
URL: https://idcdf.psb.bls.gov/content/newRespd.asp

SOII LIST OF ESTABLISHMENTS PAGE

Internet Data Collection Facility (IDCF)- Survey of Occupational Injuries and Ill...

Survey of Occupational Injuries and Illnesses

[Help](#)

You have registered to report data for the following Establishment ID(s):

* denotes the primary Establishment ID used when you registered your account

Establishment ID	Company Name
01-010473144-2	Test change
01-010473985-1	SHAW INDUSTRIES INC
01-010474045-9	BAMA SPINNING INC
01-010485527-4	UNION CAMP
01-010490463-1	KINRO MANUFACTURING INC
01-123456785-8	US DOL/BLS
01-123456786-3	BLS
25-190056702-2	test
00-550856912-2	DOL
00-987654321-7	ABC Company OK

If you have questions or comments please send e-mail to: osh.helpdesk@bls.gov
Version: 7.0
URL: <https://idcfdoosh.psb.bls.gov/OSH/content/listEstabs.jsp>

COMMENT BOX

Survey of Occupational Injuries and Illnesses - Comments - Microsoft Internet ...

Survey of Occupational Injuries and Illnesses

[Help](#)

Comments

Please add comments in the text box below.

If you have questions or comments please send e-mail to: osh.helpdesk@bls.gov
Version: 7.0
URL: <https://idcfdoosh.psb.bls.gov/OSH/content/comments.jsp>

FAQ PAGE

Frequently Asked Questions about this Website

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- [Is there a help system on the site?](#)
- [Can I modify my answers once I've entered them?](#)
- [Are my responses automatically saved?](#)
- [Is there a way to review or print my responses?](#)
- [How do I log out?](#)

Is there a help system on the site?
Yes. You can get help at any time by clicking on "Help" at the top, right-hand corner of the screen.

Can I modify my answers once I've entered them?
Yes. You can come back and modify/update your survey response at any time until you submit it to BLS.

Are my responses automatically saved?
Yes. Your responses are saved automatically when you select "Continue".

If you have questions concerning your participation in the survey, please call the number listed on the front cover of your survey booklet as 'For Help Call':.

The Bureau of Labor Statistics, its employees, agents, and partner statistical agencies, will use the information you provide for statistical purposes only and will hold the information in confidence to the full extent permitted by law. In accordance with the Confidential Information Protection and Statistical Efficiency Act of 2002 (Title 5 of Public Law 107-347) and other applicable Federal laws, your responses will not be disclosed in identifiable form without your informed consent.

We estimate it will take you an average of 24 minutes to complete this survey (ranging from 10 minutes to 5 hours per package), including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing this information. If you have any comments regarding the estimates or any other aspect of this survey, including suggestions for reducing this burden, please send them to the Bureau of Labor Statistics, Occupational Safety and Health Statistics (1220-0045), 2 Massachusetts Avenue, N.E., Washington, D.C. 20212. Persons are not required to respond to the collection of information unless it displays a currently valid OMB control number. Form Approved OMB No. 1220-0045 (expires 09-30-2010)

[Continue](#)

UPDATE RESPONDENT INFO

Survey of Occupational Injuries and Illnesses - Update Respondent Information...

Update Respondent Information

Please complete the items below.

Name & Address of Person Completing this Form (* Required Field)

* Your Name

Your Job Title

* Your Company Name

* Address

* City

* State * Zip Code

* Email

* Confirm Email

* Telephone Ext Fax

[Submit](#) [Cancel](#)

APPENDIX D
RECOMMENDATIONS ON REPORTING CASES WITH DAYS AWAY FROM
WORK: FRICKER REVIEW REPORT

- This screen has a dense, cluttered appearance, which will discourage careful reading. At a minimum, to improve readability, the formatting (specifically, the alignment of text should be improved), and there should a better use of white space so that instructions stand out more clearly.
- The instructions as written are not actually “steps,” because steps imply a series of actions that should be accomplished in a certain order.
- Our most significant criticism of this screen is that, given the current design the possibility exists that a respondent may not read the instructions carefully, click *Continue*, and then click *Submit data* on the Data Review page. If this happens, the respondent may never enter the detailed case data, which would result in missing data. This is a real possibility since early usability tests of this screen (albeit with different wording and screen design) led some persons to click *Continue*, rather than a button equivalent to the *Enter Data* button. Obviously, this is something that could be monitored in a future usability test.
- As an alternative, something like the example that follows (A) could be displayed in large text for those respondents who reported any cases. Since there are a substantial number of them, an alternative screen (B) would be presented for those respondents who reported zero cases.
- If the system knows that a respondent has reported more than 30 cases, a new screen (C) should appear.

A. Example of screen for respondents who reported cases

Please Note

In this section you are asked to enter detailed information about cases that resulted in “days away from work.” See Column (H) on OSHA *Form 300A*.

You have reported (X) cases with “days away from work (Column H).”

- o If the number of cases you entered is incorrect, click the **Back** arrow to correct your entries.
- o If the number of cases you entered is correct, click **Enter Case Data** to enter data for each case.
- o If you prefer to enter case data at a later time, click **Continue**.

B. Example of screen for respondents who reported no (zero) cases

Please Note

In this section you are asked to enter detailed information about cases that resulted in “days away from work.” See Column (H) on OSHA *Form 300A*.

You did not report any cases with “days away from work (Column H).”

- o If this is correct, click **Continue**. You are finished with this survey.
- o If this is incorrect, click the **Back** arrow to correct your entries.

C. Example of screen for respondents who report more than 30 cases

Please Note

In this section you are asked to enter detailed information about cases that resulted in “days away from work.” See Column (H) on OSHA *Form 300A*.

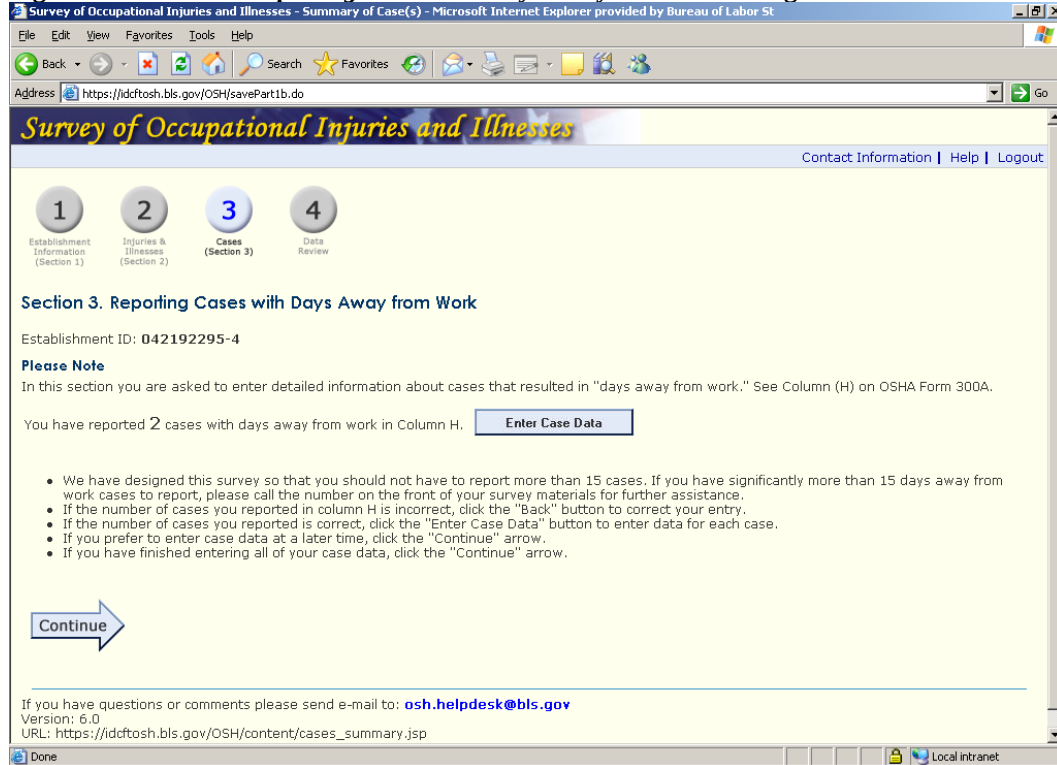
You have reported (X) cases with “days away from work (Column H).”

- o We have designed this system so that you should not have to report more than 30 cases.
- o If the number of cases you entered is incorrect, click the **Back** arrow to correct your entries.
- o If the number of cases you entered is correct, please call the phone number listed for your State for assistance. For now, click **Continue**.

APPENDIX E RECOMMENDATIONS ON REPORTING CASES WITH DAYS AWAY FROM WORK: FRICKER USABILITY REPORT

On the task in which participants had case data to report, five users correctly clicked the “Enter Case Data” button.

Figure 7. Section 3: Reporting Cases with Days Away From Work Page



Three users clicked *Continue* and were taken to the *Data Review* page, thereby inappropriately by-passing the *Cases with Days Away from Work* pages. One of these users realized his mistake and used the top navigation on the *Data Review* page (see Figure 8) to return to *Section 3* and correct his mistake.

By contrast, five users incorrectly clicked the *Enter Case Data* button on the task in which there was no case data to report. This brought users to the *Cases with Days Away from Work* screen. Two users tried clicking *Continue* at the bottom of the *Cases* page without entering any data (e.g., “I’m trying to get to *Section 4!*”), but this produced an error message indicating that they needed to fill in the required fields. Eventually four of the five users realized their mistake, used the browser’s “Back” button, and were able to return to *Section 3* to complete this part of the task successfully. One user became stuck and asked to skip the task.

- See the report generated by the September 24, 2007 OSMR expert review of the SOII-IDCF instrument for suggested revisions to this page. At the very least, the *Enter Case Data* button should be inactive/grayed out if the user has not reported any cases with days away from work.
 - HIGH

APPENDIX F
RECOMMENDATIONS ON REPORTING CASES WITH DAYS AWAY FROM
WORK: MOCKOVAK EYE-TRACKING REPORT

When survey respondents who have reported “days away from work” cases encounter this page, they are supposed to click the *Enter Case Data* button, which will then take them to a different section of the form where they can enter detailed information about the case. In the illustration shown above, a respondent would be expected to enter detailed “days away from work” data for four cases, but in the interest of time, participants in this study entered data for only one case in each of the two establishments.

In past usability tests we observed that when some participants first encountered the *Enter Case Data* page, they clicked the *Continue* arrow instead of the *Enter Case Data* button. This action brought them to a *Data Review* screen. Because of the design of the IDCF instrument, this error was not a “show stopper” because participants could still return to the *Enter Case Data* screen using the *Back* arrow (and some respondents, in fact, did this). Nonetheless, the possibility exists that some proportion of actual survey respondents will succumb to this usability glitch, continue to the *Review Data* page, and submit their data without entering details about specific cases. Since the sample for SOII is quite large, even a relatively small proportion of respondents making this error could result in a large amount of missing data.

Summary of Findings and Recommendations

The preceding analyses support the following conclusions:

1. Some Instructions Draw Attention, Others are Ignored. It’s encouraging to note that some instructions, for example, the instructions following the “Please Note” heading and the single line of instructions before the *Enter Case Data* button drew a significant amount of attention. However, the gaze data do not strongly suggest that these lines were read carefully by most participants. Instead, it appears that they were mostly scanned. Other instructions, such as the detailed bullet list following the *Enter Case Data* button, drew very little attention, plus none of the gaze-plot data suggest that these bullets were read (there was evidence that the beginnings of some individual lines were scanned).
2. Familiarity Had an Impact. The heat map displays clearly show that there were fewer fixations when the participants completed the second establishment. Instead, participants tended to hone in on the critical information and navigation elements that they needed.
3. Parts of the Screen Are Essentially Ignored. Parts of the screen such as the banner area, the footer area, and the upper right quadrant receive very little, or no, attention. Therefore, they are superfluous to the task at hand.

What Are the Implications for Design of the *Enter Case Data* Page?

The current eye-tracking analysis, although cursory and largely subjective, strongly suggests that the existing *Enter Case Data* page should be redesigned. There are two key reasons for making this suggestion.

First, key instructions on the page (bullets following the *Enter Case Data* button) are routinely ignored and may be partially obscuring the *Enter Case Data* button. Moreover, even instructions that draw attention do not appear to be read carefully.

Second, the usability problem that had been observed in previous testing when respondents clicked the *Continue* arrow, rather than the *Enter Case Data* button, also occurred in this study in several of the cases. The instructions and screen design should make it clear that the *Enter Case Data* button is the first option on this screen.

Given the advantages of interactive survey instruments that can take into account previous entries made by a respondent, it's not clear why the *Enter Case Data* page, as designed, is necessary at all. If survey respondents indicate that they have cases with days away from work in Section 2, it would seem that all the instrument needs to do is display a confirmatory page as shown below. After detailed information had been entered for a case, the next screen that appears would then show something like what appears in the "Follow-up Page" illustration below.

Confirmatory Page. If respondent indicated that there were cases with "days away from work"

Your entries in Section 2 indicate that you had cases where employees either missed days of work or their work activities were restricted.

If this is correct, click the *Continue* arrow to provide additional information about **X** of those cases.

If this is incorrect, click the *Back* button on your browser and correct your previous answer in Item H (Section 2).

Continue →

Follow-up page, when detailed information is entered for more than one "days away from work" case

Section 3. Entering Detailed Information about Cases

As shown in the table below, you have entered information for 2 of Y cases.

- Click here to [enter information for additional cases](#)
- Click *Exit*, if you would like to enter this information later

				Days		
	Employee's Name	Job Title	Date of Injury	of Restriction	away from work	
<i>Update</i>	Joy	Engineer	12/10/2007	1	1	<i>Delete</i>
<i>Update</i>	James	QA	12/12/2007	0	1	<i>Delete</i>

Exit →