**Early User Involvement Event Report**

**(E-IDS)**

**Air Traffic (AT) EUIE Surveys and Focus Group Questions**

**For NATCA Review**

**07/09/2021**

# System Usability Scale

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Table 5-1 E-IDS System Usability Score (SUS) | | | | | | |
| **#** | **Question** | **Strongly Disagree** | **Disagree** | **Neutral** | **Agree** | **Strongly Agree** |
| **1** | I prefer the user interface of this system over other IDS systems that I have previously used |  |  |  |  |  |
| **2** | I found the system to be unnecessarily complex |  |  |  |  |  |
| **3** | I thought the system was easy to use |  |  |  |  |  |
| **4** | I think I would need support of help documentation or support personnel to be able to use this system |  |  |  |  |  |
| **5** | I found the various functions in this system were well integrated |  |  |  |  |  |
| **6** | I thought there was too much inconsistency in this system |  |  |  |  |  |
| **7** | I would imagine that most people in my operational environment would learn to use the system very quickly |  |  |  |  |  |
| **8** | I found the system very cumbersome to use |  |  |  |  |  |
| **9** | I felt very confident using the system |  |  |  |  |  |
| **10** | I need to learn a lot of things before I could get going with this system |  |  |  |  |  |

# SUS Coding Legend

To score the SUS, take each answer and assign it a numerical value based on the coding legend (Table 3-2), and then sum all the answers and multiply by 2.5. Take each sum from each participant and find the average total score; this is the final score. If the final score is 68 or greater, the system is considered to have “above average usability”.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Table 5-2 SUS Coding Legend | | | | | |
| **Question Number** | **Strongly Disagree** | **Disagree** | **Neutral** | **Agree** | **Strongly Agree** |
| **1** | 0 | 1 | 2 | 3 | 4 |
| **2** | 4 | 3 | 2 | 1 | 0 |
| **3** | 0 | 1 | 2 | 3 | 4 |
| **4** | 4 | 3 | 2 | 1 | 0 |
| **5** | 0 | 1 | 2 | 3 | 4 |
| **6** | 4 | 3 | 2 | 1 | 0 |
| **7** | 0 | 1 | 2 | 3 | 4 |
| **8** | 4 | 3 | 2 | 1 | 0 |
| **9** | 0 | 1 | 2 | 3 | 4 |
| **10** | 4 | 3 | 2 | 1 | 0 |
| **Score # Amount** | | | | | |

## 

# AT Scenario Surveys

This section details the surveys for each E-IDS EUIE AT user group scenario, intended for use in gathering quantitative data on the usability and suitability of the E-IDS UI. Also included are the coding legends to score each scenario. To score each scenario, take each answer and assign it a numerical value based on the associated coding legends, and then sum all the answers. Take each sum from each participant and find the average total score; this is the final score. If the final score is 70 or greater, the functional area of the system addressed by the scenario is considered to have “above average usability”. Any survey question or functionally related questions that score “Neutral” (70) or lower will be targeted for discussion during daily Focus Group sessions.

## Scenario 1: PIREPs and Incident Reports Survey

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| AT Scenario: PIREPs and Incident Reports | | | | | | |
| **#** | **Question** | **Strongly Disagree** | **Disagree** | **Neutral** | **Agree** | **Strongly Agree** |
| **1** | I like how intuitive the PIREP Entry Form is to complete |  |  |  |  |  |
| **2** | The Incident Report Form was difficult to locate |  |  |  |  |  |
| **3** | The PIREP Entry Form had options for all the different types of PIREPs |  |  |  |  |  |
| **4** | I could not locate a previously saved but incomplete Incident Form |  |  |  |  |  |
| **5** | I know I can easily complete and submit an Incident Report using the E-IDS tools |  |  |  |  |  |
| **6** | The PIREP Form was confusing |  |  |  |  |  |
| **7** | I had no issues finding the Incident Report Form tool |  |  |  |  |  |
| **8** | I am confident that the PIREP Form will not meet my facility's needs |  |  |  |  |  |
| **9** | I am confident that the Incident Report Form will meet my facility's needs |  |  |  |  |  |
| **10** | The Incident Report Form did not have enough options |  |  |  |  |  |

## Scenario 1: PIREPs and Incident Reports Coding Legend

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| AT Scenario PIREPs and Incident Reports Coding Legend | | | | | |
| **Question Number** | **Strongly Disagree** | **Disagree** | **Neutral** | **Agree** | **Strongly Agree** |
| **1** | 2 | 4 | 6 | 8 | 10 |
| **2** | 10 | 8 | 6 | 4 | 2 |
| **3** | 2 | 4 | 6 | 8 | 2 |
| **4** | 10 | 8 | 6 | 4 | 2 |
| **5** | 2 | 4 | 6 | 8 | 10 |
| **6** | 10 | 8 | 6 | 4 | 2 |
| **7** | 2 | 4 | 6 | 8 | 10 |
| **8** | 10 | 8 | 6 | 4 | 2 |
| **9** | 2 | 4 | 6 | 8 | 10 |
| **10** | 10 | 8 | 6 | 4 | 2 |
| **Score # Amount** | | | | | |

## Scenario 1: PIREPs and Incident Reports Focus Group Questions

* + Was the PIREP Entry Form intuitive to use? What aspects of the design or functionality could be improved and how?
  + Do the icons in the Navigation Bar effectively convey their underlying function? If not, which icons do you find to be unintuitive?
  + With minimal training, do you feel confident using the PIREP Entry Form for the creation and submission of PIREPs?
  + Were there any functionalities that you were expecting to be available as part of the PIREP Entry Form that were missing?
  + Was the Incident Report Form tool intuitive to use? What aspects of the design or functionality could be improved and how?
  + Was finding and completing an Incomplete Incident Form intuitive to do?
  + With minimal training, do you feel confident using the Incident Report Form tool for the creation and submission of Incident Reports?
  + Were there any functionalities that you were expecting to be available as part of the Incident Report Form tool that were missing?

## Scenario 2: Airport Information Area Survey

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| AT Scenario: Airport Information Area | | | | | | |
| **#** | **Question** | **Strongly Disagree** | **Disagree** | **Neutral** | **Agree** | **Strongly Agree** |
| **1** | I think the Airport Information Area has all the components my facility needs |  |  |  |  |  |
| **2** | I do not like the way the Airport Information Area displays the runways |  |  |  |  |  |
| **3** | I am confident in my ability to update information in the Airport Information Area |  |  |  |  |  |
| **4** | Updating the Runway status changed the winds information accurately |  |  |  |  |  |
| **5** | The Airport Information Area is arranged in a way that makes viewing critical information confusing |  |  |  |  |  |
| **6** | I had trouble finding the Altimeter in the Airport Information Area |  |  |  |  |  |
| **7** | The Airport Information Area is missing critical information |  |  |  |  |  |
| **8** | I had no problems updating the ATIS code in the Airport Information Area |  |  |  |  |  |
| **9** | I like how the Airport Information Area has all the critical information my facility needs |  |  |  |  |  |
| **10** | The winds did not display correctly after the Runway status was changed |  |  |  |  |  |

## Scenario 2: Airport Information Area Coding Legend

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| AT Scenario Airport Information Area Coding Legend | | | | | |
| **Question Number** | **Strongly Disagree** | **Disagree** | **Neutral** | **Agree** | **Strongly Agree** |
| **1** | 2 | 4 | 6 | 8 | 10 |
| **2** | 10 | 8 | 6 | 4 | 2 |
| **3** | 2 | 4 | 6 | 8 | 10 |
| **4** | 2 | 4 | 6 | 8 | 10 |
| **5** | 10 | 8 | 6 | 4 | 2 |
| **6** | 10 | 8 | 6 | 4 | 2 |
| **7** | 10 | 8 | 6 | 4 | 2 |
| **8** | 2 | 4 | 6 | 8 | 10 |
| **9** | 2 | 4 | 6 | 8 | 10 |
| **10** | 10 | 8 | 6 | 4 | 2 |
| **Score # Amount** | | | | | |

## Scenario 2: Airport Information Area Focus Group Questions

* + Was the Airport Information Area intuitive to view and read? What aspects of the design or functionality could be improved and how?
  + Do the UI Elements in the container effectively convey their underlying function? If not, which UI Elements (ATIS, Altimeter, METAR, Winds, Runway, RVR, and/or Sunrise/Sunset Times) do you find to be unintuitive?
  + With minimal training, do you feel confident using the information contained in the Airport Information Area for air traffic management?
  + Were there any functionalities or data types that you were expecting to be available as part of the Airport Information Area that were missing?
  + Did the ATIS, Runway, Winds, and Sunrise/Sunset behave as expected when they were updated? If not, what would you change and why?

## Scenario 3: Subpages and Shortcuts Survey

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| AT Scenario: Subpages and Shortcuts | | | | | | |
| **#** | **Question** | **Strongly Disagree** | **Disagree** | **Neutral** | **Agree** | **Strongly Agree** |
| **1** | Shortcuts in E-IDS function as I expected |  |  |  |  |  |
| **2** | The distinction between National and Local Shortcuts was confusing |  |  |  |  |  |
| **3** | I could easily identify additional local Shortcut rows and navigate to them |  |  |  |  |  |
| **4** | I do not think the arrangement of the National Shortcuts is intuitive |  |  |  |  |  |
| **5** | The National Subpages included in this prototype contain critical information my facility will use daily |  |  |  |  |  |
| **6** | There are not enough Local Shortcut slots for my facility's needs |  |  |  |  |  |
| **7** | The National Subpages included in this prototype do not provide an added value for performing my job responsibilities |  |  |  |  |  |
| **8** | The arrangement of Shortcuts made locating information easy |  |  |  |  |  |
| **9** | The intuitive nature of the Shortcuts Area made distinguishing between National and Local Shortcuts easy |  |  |  |  |  |
| **10** | E-IDS Shortcuts do not function the way I need |  |  |  |  |  |

## Scenario 3: Subpages and Shortcuts Coding Legend

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| AT Scenario Subpages and Shortcuts Coding Legend | | | | | |
| **Question Number** | **Strongly Disagree** | **Disagree** | **Neutral** | **Agree** | **Strongly Agree** |
| **1** | 2 | 4 | 6 | 8 | 10 |
| **2** | 10 | 8 | 6 | 4 | 2 |
| **3** | 2 | 4 | 6 | 8 | 10 |
| **4** | 10 | 8 | 6 | 4 | 2 |
| **5** | 2 | 4 | 6 | 8 | 10 |
| **6** | 10 | 8 | 6 | 4 | 2 |
| **7** | 10 | 8 | 6 | 4 | 2 |
| **8** | 2 | 4 | 6 | 8 | 10 |
| **9** | 2 | 4 | 6 | 8 | 10 |
| **10** | 10 | 8 | 6 | 4 | 2 |
| **Score # Amount** | | | | | |

## Scenario 3: Subpages and Shortcuts Focus Group Questions

* + Were the Shortcuts in the Shortcuts Area readable and easy to use? What aspects of the design or functionality could be improved and how?
  + Do the National Shortcuts included in this prototype effectively convey their underlying subpage content? If not, which National Shortcuts do you find to be unintuitive?
  + Do the Local Shortcuts included in this prototype effectively convey their underlying subpage content? If not, what about the Shortcuts do you find to be unintuitive?
  + Were there any functionalities that you were expecting to be available as part of the Shortcuts/Shortcuts Area that were missing?
  + Were there any functionalities that you were expecting to be available on the provided subpages that were missing?
  + Was it easy to navigate to subpages using shortcuts? Was it easy and intuitive to return back to the home screen?
  + With minimal training, do you feel confident using Shortcuts to navigate through the various E-IDS subpages?

## Scenario 4: NOTAMs Survey

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| AT Scenario: NOTAMs | | | | | | |
| **#** | **Question** | **Strongly Disagree** | **Disagree** | **Neutral** | **Agree** | **Strongly Agree** |
| **1** | The way NOTAMs are displayed is very intuitive |  |  |  |  |  |
| **2** | I had trouble un-hiding a NOTAM |  |  |  |  |  |
| **3** | I am confident in my ability to post NOTAMs to other user displays |  |  |  |  |  |
| **4** | It was unclear how to acknowledge a new NOTAM |  |  |  |  |  |
| **5** | I like how easy it is to find specific NOTAMs in full view |  |  |  |  |  |
| **6** | I do not think the Modal/Full view of the NOTAMs display will function as my facility requires |  |  |  |  |  |
| **7** | I am confident that I can correctly mark a NOTAM to be kept |  |  |  |  |  |
| **8** | It was difficult to abbreviate a NOTAM in the Modal/Full display |  |  |  |  |  |
| **9** | I am confident in my ability to view acknowledged NOTAMs |  |  |  |  |  |
| **10** | I could not remove NOTAMs from display |  |  |  |  |  |

## Scenario 4: NOTAMs Coding Legend

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| AT Scenario NOTAMs Coding Legend | | | | | |
| **Question Number** | **Strongly Disagree** | **Disagree** | **Neutral** | **Agree** | **Strongly Agree** |
| **1** | 2 | 4 | 6 | 6 | 10 |
| **2** | 10 | 8 | 6 | 4 | 2 |
| **3** | 2 | 4 | 6 | 6 | 10 |
| **4** | 10 | 8 | 6 | 4 | 2 |
| **5** | 2 | 4 | 6 | 6 | 10 |
| **6** | 10 | 8 | 6 | 4 | 2 |
| **7** | 2 | 4 | 6 | 6 | 10 |
| **8** | 10 | 8 | 6 | 4 | 2 |
| **9** | 2 | 4 | 6 | 6 | 10 |
| **10** | 10 | 8 | 6 | 4 | 2 |
| **Score # Amount** | | | | | |

## Scenario 4: NOTAMs Focus Group Questions

* + **OS/CIC:**
    - Was the NOTAMs List Box intuitive to read and use? What aspects of the design or functionality could be improved and how?
    - Do the icons in the NOTAMs List Box effectively convey their underlying function? If not, which icons do you find to be unintuitive?
    - Did the Abbreviation of a NOTAM work as expected?
    - Did the Mark for Removal of a NOTAM work as expected?
    - Did the Mark for Keep of a NOTAM work as expected?
    - Was the Acknowledgement Status of Posted NOTAMs intuitive to view? What aspects of the design or functionality could be improved and how?
    - Were there any functionalities that you were expecting to be available as part of NOTAM list boxes that were missing?
  + **AT Controller:**
    - Was the NOTAMs List Box intuitive to read and use? What aspects of the design or functionality could be improved and how?
    - Do the icons in the NOTAMs List Box effectively convey their underlying function? If not, which icons do you find to be unintuitive?
    - Did the expansion of a Truncated NOTAM to Full Text work as expected?
    - Did the Hide/Unhide action work as expected?
    - Did the Pin/Unpin action work as expected?
    - Did the Acknowledgement of a Posted NOTAM work as expected?
    - Were there any functionalities that you were expecting to be available as part of NOTAM list boxes that were missing?

### 

## Scenario 5: Static Documents Survey

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| AT Scenario: Static Documents | | | | | | |
| **#** | **Question** | **Strongly Disagree** | **Disagree** | **Neutral** | **Agree** | **Strongly Agree** |
| **1** | The way static documents are displayed is confusing |  |  |  |  |  |
| **2** | I like how easy it was to scroll through the documents |  |  |  |  |  |
| **3** | I could not get the document to display correctly after I zoomed in |  |  |  |  |  |
| **4** | Documents are displayed on subpages in a manner that is intuitive |  |  |  |  |  |
| **5** | The bookmark did not work the way I expected |  |  |  |  |  |
| **6** | Decreasing the zoom level displayed the document as I would expect |  |  |  |  |  |
| **7** | I like how easy it is to switch between documents |  |  |  |  |  |
| **8** | I think the way E-IDS incorporates bookmarks in documents is intuitive |  |  |  |  |  |
| **9** | Scrolling through static documents does not function as expected |  |  |  |  |  |
| **10** | I know that E-IDS will not easily display the static documents my facility uses |  |  |  |  |  |

## Scenario 5: Static Documents Coding Legend

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| AT Scenario Static Documents Coding Legend | | | | | |
| **Question Number** | **Strongly Disagree** | **Disagree** | **Neutral** | **Agree** | **Strongly Agree** |
| **1** | 10 | 8 | 6 | 4 | 2 |
| **2** | 2 | 4 | 6 | 8 | 10 |
| **3** | 10 | 8 | 6 | 4 | 2 |
| **4** | 2 | 4 | 6 | 8 | 10 |
| **5** | 10 | 8 | 6 | 4 | 2 |
| **6** | 2 | 4 | 6 | 8 | 10 |
| **7** | 2 | 4 | 6 | 8 | 10 |
| **8** | 2 | 4 | 6 | 8 | 10 |
| **9** | 10 | 8 | 6 | 4 | 2 |
| **10** | 10 | 8 | 6 | 4 | 2 |
| **Score # Amount** | | | | | |

## Scenario 5: Static Documents Focus Group Questions

* + Was the display of Static Documents intuitive to view? What aspects of the design or functionality could be improved and how?
  + Did the scrolling of Static Documents work as expected?
  + Did the increase/decrease of the zoom level of Static Documents work as expected?
  + Did the rotation of the static document work as expected?
  + Was it easy to identify the controls available for the manipulation of Static Documents?
  + Were the static documents readable?
  + Did moving and resizing the window containing the static documents work as expected?
  + Did the Bookmark of a section of a Static Document (e.g., 7110.65) function as expected?
  + Were there any functionalities that you were expecting to be available as part of Static Documents that were missing?

## Scenario 6: SAA Status Display Survey

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| AT Scenario: SAA Status Display | | | | | | |
| **#** | **Question** | **Strongly Disagree** | **Disagree** | **Neutral** | **Agree** | **Strongly Agree** |
| **1** | The SAA Status Panel had all the information I need |  |  |  |  |  |
| **2** | The SAA Status Panel was not arranged intuitively |  |  |  |  |  |
| **3** | I had no issues updating the altitude in the SAA Status Panel |  |  |  |  |  |
| **4** | I could not easily change the active status in the SAA display |  |  |  |  |  |
| **5** | I was unable to confirm updates made to the SAA Status display |  |  |  |  |  |
| **6** | I am confident in my ability to change the SAA to inactive |  |  |  |  |  |
| **7** | The actions to update the SAA altitude range were unintuitive |  |  |  |  |  |
| **8** | The SAA display is missing critical altitude information |  |  |  |  |  |
| **9** | I know I can confirm status updates to the SAA display |  |  |  |  |  |
| **10** | I like how intuitive the arrangement of the SAA display is |  |  |  |  |  |

## Scenario 6: SAA Status Display Coding Legend

| AT Scenario SAA Status Display Coding Legend | | | | | |
| --- | --- | --- | --- | --- | --- |
| **Question Number** | **Strongly Disagree** | **Disagree** | **Neutral** | **Agree** | **Strongly Agree** |
| **1** | 2 | 4 | 6 | 8 | 10 |
| **2** | 10 | 8 | 6 | 4 | 2 |
| **3** | 2 | 4 | 6 | 8 | 10 |
| **4** | 10 | 8 | 6 | 4 | 2 |
| **5** | 10 | 8 | 6 | 4 | 2 |
| **6** | 2 | 4 | 6 | 8 | 10 |
| **7** | 10 | 8 | 6 | 4 | 2 |
| **8** | 10 | 8 | 6 | 4 | 2 |
| **9** | 2 | 4 | 6 | 8 | 10 |
| **10** | 2 | 4 | 6 | 8 | 10 |
| **Score # Amount** | | | | | |

## Scenario 6: SAA Status Display Focus Group Questions

* + Was the SAA Status Panel intuitive to view and use? What aspects of the design or functionality could be improved and how?
  + Do the icons in the SAA Status Panel effectively convey their underlying function? If not, which icons do you find to be unintuitive?
  + Did the updating of the Altitude Range of an SAA work as expected?
  + Did the changes made to the SAA display as expected? If not, what aspects of the design or functionality could be improved and how?
  + Were there any functionalities that you were expecting to be available as part of the SAA Status Panel that were missing?

## Scenario 7: Notices of Change (NoC) Survey

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| AT Scenario: Notices of Change (NoC) | | | | | | |
| **#** | **Question** | **Strongly Disagree** | **Disagree** | **Neutral** | **Agree** | **Strongly Agree** |
| **1** | I am confident I can distinguish between Indicators and Notifications |  |  |  |  |  |
| **2** | I could not locate the new information after I received an indicator |  |  |  |  |  |
| **3** | I am confident in my ability to acknowledge a notification |  |  |  |  |  |
| **4** | The audible alert is too noisy for my facility |  |  |  |  |  |
| **5** | Acknowledging a notification is unintuitive |  |  |  |  |  |
| **6** | I had trouble silencing an audible alert |  |  |  |  |  |
| **7** | Indicators work intuitively |  |  |  |  |  |
| **8** | I do not understand the difference between a notification and an indicator |  |  |  |  |  |
| **9** | I am able to silence audible notifications |  |  |  |  |  |
| **10** | I am confident I can locate information after being notified of a change |  |  |  |  |  |

## Scenario 7: Notices of Change (NoC) Coding Legend

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| AT Scenario Notices of Change (NoC) Coding Legend | | | | | |
| **Question Number** | **Strongly Disagree** | **Disagree** | **Neutral** | **Agree** | **Strongly Agree** |
| **1** | 2 | 4 | 6 | 8 | 10 |
| **2** | 10 | 8 | 6 | 4 | 2 |
| **3** | 2 | 4 | 6 | 8 | 10 |
| **4** | 10 | 8 | 6 | 4 | 2 |
| **5** | 10 | 8 | 6 | 4 | 2 |
| **6** | 10 | 8 | 6 | 4 | 2 |
| **7** | 2 | 4 | 6 | 8 | 10 |
| **8** | 10 | 8 | 6 | 4 | 2 |
| **9** | 2 | 4 | 6 | 8 | 10 |
| **10** | 2 | 4 | 6 | 8 | 10 |
| **Score # Amount** | | | | | |

## Scenario 7: Notices of Change (NoC) Focus Group Questions

* + Were Notices-of-Change intuitive to view? What aspects of their design or functionality could be improved and how?
  + Did an Indicator (no acknowledgement) work as expected?
  + Did a Notification (requires acknowledgement) work as expected?
  + Did the audible NoC work as expected?
  + Did the NoC effectively and intuitively direct you to the new information?
  + Are there attributes of the NoC (visual indicators and notifications, and audible alerts) that you think would lead to nuisance alarms, distracting you from other pertinent display information?
  + Were there any functionalities that you were expecting to be available as part of NoCs that were missing?

### 

## Scenario 8: Position Pairing Survey

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| AT Scenario: Position Pairing Survey | | | | | | |
| **#** | **Question** | **Strongly Disagree** | **Disagree** | **Neutral** | **Agree** | **Strongly Agree** |
| **1** | I am confident in my ability to select the appropriate Position Setup from the Paired Positions List |  |  |  |  |  |
| **2** | It is not easy to switch between Position Setups |  |  |  |  |  |
| **3** | I can easily switch between a combined and a de-combined position setup |  |  |  |  |  |
| **4** | The Paired Position List is difficult to find |  |  |  |  |  |
| **5** | Position Setups are intuitive |  |  |  |  |  |
| **6** | Confirming a Position Setup selecting is not intuitive |  |  |  |  |  |
| **7** | I am confident I know how to select a non-combined Position Setup |  |  |  |  |  |
| **8** | I think that the Paired Position List is not intuitive |  |  |  |  |  |
| **9** | The Paired Position List will meet my facility's needs |  |  |  |  |  |
| **10** | The selection of Position Setups will not meet my facility's needs |  |  |  |  |  |

## Scenario 8: Position Pairing Coding Legend

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| AT Scenario Position Pairing Coding Legend | | | | | |
| **Question Number** | **Strongly Disagree** | **Disagree** | **Neutral** | **Agree** | **Strongly Agree** |
| **1** | 2 | 4 | 6 | 8 | 10 |
| **2** | 10 | 8 | 6 | 4 | 2 |
| **3** | 2 | 4 | 6 | 8 | 10 |
| **4** | 10 | 8 | 6 | 4 | 2 |
| **5** | 2 | 4 | 6 | 8 | 10 |
| **6** | 10 | 8 | 6 | 4 | 2 |
| **7** | 2 | 4 | 6 | 8 | 10 |
| **8** | 10 | 8 | 6 | 4 | 2 |
| **9** | 2 | 4 | 6 | 8 | 10 |
| **10** | 10 | 8 | 6 | 4 | 2 |
| **Score # Amount** | | | | | |

## Scenario 8: Position Pairing Focus Group Questions

* + Was pairing to a Position Setup intuitive? What aspects of the design or functionality could be improved and how?
  + Was the Position Pairing dropdown list on the Navigation Bar intuitive? Did the Position Setup list effectively relay its underlying function?
  + With minimal training, do you feel confident using the Position Pairing dropdown list for air traffic management?
  + Were there any functionalities that you were expecting to be available as part of Position Pairing that were missing?

### 

## Scenario 9: Free Text Data Box and Operational Equipment Status Survey

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| AT Scenario: Free Text Data Box and Operational Equipment Status | | | | | | |
| **#** | **Question** | **Strongly Disagree** | **Disagree** | **Neutral** | **Agree** | **Strongly Agree** |
| **1** | Free Text Data Boxes are intuitive to use |  |  |  |  |  |
| **2** | I could not find the equipment outage notice |  |  |  |  |  |
| **3** | I had no problems inputting an equipment outage notice |  |  |  |  |  |
| **4** | Removing an outage notice was unintuitive |  |  |  |  |  |
| **5** | Confirming the equipment status in the Free Text Data Box is easy |  |  |  |  |  |
| **6** | I could not confirm the status of the operational equipment |  |  |  |  |  |
| **7** | Confirming the status of operational equipment is intuitive |  |  |  |  |  |
| **8** | Inputting the status of equipment is not intuitive |  |  |  |  |  |
| **9** | I do not think the functionality of Free Text Data Boxes will work for my facility |  |  |  |  |  |
| **10** | I am confident in my ability to update the status of operational equipment using the Free Text Data Box |  |  |  |  |  |

## Scenario 9: Free Text Data Box and Operational Equipment Status Coding Legend

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| AT Scenario Free Text Data Box and Operational Equipment Status Coding Legend | | | | | |
| **Question Number** | **Strongly Disagree** | **Disagree** | **Neutral** | **Agree** | **Strongly Agree** |
| **1** | 2 | 4 | 6 | 8 | 10 |
| **2** | 10 | 8 | 6 | 4 | 2 |
| **3** | 2 | 4 | 6 | 8 | 10 |
| **4** | 10 | 8 | 6 | 4 | 2 |
| **5** | 2 | 4 | 6 | 8 | 10 |
| **6** | 10 | 8 | 6 | 4 | 2 |
| **7** | 2 | 4 | 6 | 8 | 10 |
| **8** | 10 | 8 | 6 | 4 | 2 |
| **9** | 10 | 8 | 6 | 4 | 2 |
| **10** | 2 | 4 | 6 | 8 | 10 |
| **Score # Amount** | | | | | |

## Scenario 9: Free Text Data Box and Operational Equipment Status Focus Group Questions

* + **OS/CIC:**
    - Was entering information into a Free Text Data Box intuitive? What aspects of the design or functionality could be improved and how?
    - Was removing information from a Free Text Data Box intuitive?
    - Were there any functionalities that you were expecting to be available as part of a Free Text Data Box that were missing?
    - Was data entered into Free Text Data Boxes displayed as you intended?
    - Is more customization needed for how text can be displayed in the Free Text Data Box? If yes, what types of customization would you like to see?
  + **AT Controller:**
    - Was the use of a Free Text Data Box intuitive? What aspects of the design or functionality could be improved and how?
    - Was text in the Free Text Data Boxes readable?
    - When the OS/CIC updated the information in the Free Text Data Box, did it display as expected?
    - Were there any functionalities that you were expecting to be available as part of a Free Text Data Box that were missing?

## Scenario 10: Time/Date Display (Navigation Bar) Survey

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| AT Scenario: Time/Date Display (Navigation Bar) | | | | | | |
| **#** | **Question** | **Strongly Disagree** | **Disagree** | **Neutral** | **Agree** | **Strongly Agree** |
| **1** | I am confident I can switch between UTC and Local times in E-IDS |  |  |  |  |  |
| **2** | E-IDS displays time un-intuitively |  |  |  |  |  |
| **3** | I believe my facility will use the E-IDS Time/Date display often |  |  |  |  |  |
| **T4** | I do not feel comfortable switching between time types from the Navigation Bar |  |  |  |  |  |
| **5** | I am confident that I can change dates using the display in the Navigation Bar |  |  |  |  |  |
| **6** | The nature of the Navigation Bar made finding the Time/Date display hard |  |  |  |  |  |
| **7** | I like how the time is displayed in the Navigation Bar |  |  |  |  |  |
| **8** | I do not like how the date is displayed in the Navigation Bar |  |  |  |  |  |
| **9** | The way the date is displayed will make using it easy |  |  |  |  |  |
| **10** | The way the time is displayed will make switching to UTC time difficult |  |  |  |  |  |

## Scenario 10 Coding Legend

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| AT Scenario Time/Date Display (Navigation Bar) Coding Legend | | | | | |
| **Question Number** | **Strongly Disagree** | **Disagree** | **Neutral** | **Agree** | **Strongly Agree** |
| **1** | 2 | 4 | 6 | 8 | 10 |
| **2** | 10 | 8 | 6 | 4 | 2 |
| **3** | 2 | 4 | 6 | 8 | 10 |
| **4** | 10 | 8 | 6 | 4 | 2 |
| **5** | 2 | 4 | 6 | 8 | 10 |
| **6** | 10 | 8 | 6 | 4 | 2 |
| **7** | 2 | 4 | 6 | 8 | 10 |
| **8** | 10 | 8 | 6 | 4 | 2 |
| **9** | 2 | 4 | 6 | 8 | 10 |
| **10** | 10 | 8 | 6 | 4 | 2 |
| **Score # Amount** | | | | | |

## Scenario 10: Time/Date Display (Navigation Bar) Focus Group Questions

* + Was the Navigation Bar intuitive to use? What aspects of the design or functionality could be improved and how?
  + Do the icons in the Navigation Bar effectively convey their underlying function? If not, which icons do you find to be unintuitive?
  + With minimal training, do you feel confident using the Navigation Bar to change between UTC and Local Time in the Time/Data Display?
  + Were there any functionalities that you were expecting to be available as part of the Navigation Bar that were missing?