

**NERC**

NORTH AMERICAN ELECTRIC  
RELIABILITY CORPORATION

# BESNet User Manual

Exception Request Preparation for  
Registered Entities

June 29, 2014  
Version 1-2

**RELIABILITY | ACCOUNTABILITY**



3353 Peachtree Road NE  
Suite 600, North Tower  
Atlanta, GA 30326  
404-446-2560 | [www.nerc.com](http://www.nerc.com)

# Table of Contents

---

Introduction.....	4
BESNet Program Cautions.....	4
Logging In.....	5
Selecting the User’s Entity .....	5
Logging Out.....	6
BESNet Dashboard Overview.....	7
Creating an Exception Request.....	9
Completing Section 1: General Information.....	9
Specifying the Submitting Entity .....	10
Specifying the Owning Entity .....	11
Selecting Element Description .....	12
Selecting Basis for Self-Determination.....	12
Adding Associated Exception Requests .....	13
Removing an Element Description or Basis for Self-Determination .....	14
Completing Section 2: Detailed Information .....	15
Specifying Scope of Responsibility Entities .....	15
Adding an Element to an Exception Request.....	17
Element Types.....	19
Add a Generation Facility.....	20
Add a Circuit.....	21
Add a DC Converter.....	22
Add a Substation Shunt Device .....	23
Add a Network .....	24
Selecting a Region for the Element.....	25
Add Supporting Documentation for an Element .....	25
Removing Documentation from an Element .....	26
Editing an Element in an Exception Request.....	28
Removing an Element from an Exception Request.....	28
Completing Section 3: Detailed Engineering Information – Documents.....	29
Attaching Exception Request Documents.....	29
Removing Exception Request Documents .....	30
Transmission Facility Details .....	31

---

Table of Contents

---

Generation Facility Details ..... 33

Certifying and Submitting an Exception Request ..... 34

Appendix A – Version History ..... 36

# Introduction

---

**NOTE: This user manual ONLY addresses creation and submittal of Exception Requests. Other User Manuals currently available are:**

- **BESNet User Administration**
- **Creation and submission of Notifications of Self-Determination**

This user manual provides a guided walk-through to illustrate the BES Notifications and Exceptions Tool (BESNet). The system provides a workflow-based process that emulates the BES Exceptions Procedure (as outlined in NERC's Rules of Procedure, Appendix 5C), to route, evaluate, and take actions on Exception Requests and Self-Determined Notifications.

Users have the ability to log into a secure portal and create both Exception Requests and Self-Determination Notifications. Depending upon the selection, the user is provided with an Exception or Self-Determination form. Each form captures the relevant details for the Submitting and Owning Entities, Inclusion and Exclusion rules, Element descriptions, and one or more elements.

Upon completion of the form, the Entity is able to submit the Exception Request or Notification. The system will automatically notify all appropriate parties of the submission. This includes Submitting and Owning Entities, "Scope of Responsibility" Entities, Regional Entities, and NERC. BESNet provides capabilities for Regional Entities to acknowledge Notification of Self-Determination elements and process Exception Requests, request and receive supplemental information, alert and notify participants of changes, issue recommendations, and monitor periodic re-certification of requests. In addition, NERC can create proposed and final decisions, as well as manage appeals to those decisions.

BESNet contains report functions for accessing information about Exception Requests and Notifications, which enables BESNet to produce a list of facilities and Elements for which: 1) Exception Requests to the BES Definition have been granted, and 2) Notifications of Self-Determination have been submitted. NERC will publicly post reports on its website that provide interested persons (including applicable governmental authorities) information regarding submitted Exception Requests that may be of interest to them.

## **BESNet Program Cautions**

The following cautions should be followed when using the BESNet program:

- A. DO NOT use the back button in your browser.
- B. Be sure to scroll right and left within your browser (depending on your screen resolution) to ensure that all required information is entered in the browser.

## Logging In

Navigate to the following URL: <https://besnet.eroenterprise.com>

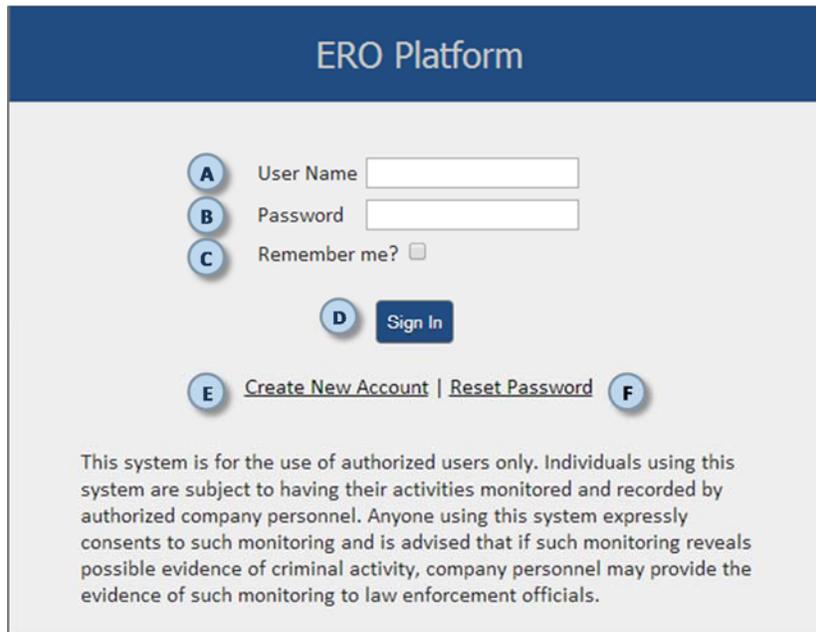


Figure 1: ERO Platform Log-In Screen

- A. Enter the **User Name** (A).
- B. Enter the **Password** (B) created during user registration.
- C. If desired, click on the **Remember me?** checkbox (C), which gives permission for the system to remember the credentials entered.
- D. Once finished with these fields, complete the login process by pressing the **Sign In** (D) button.
- E. Click the **Create New Account** (E) link. See Section **Creating a New Account** for more details.
- F. To reset your password, click the **Reset Password** (F) link. See Section **Resetting the User Password** for more details.

## Selecting the User's Entity

If the user has been vetted as a representative for more than one Entity, the user will first be prompted to select the Entity he or she wishes to represent for the current session. Users who are only vetted for a single Entity will skip this step.

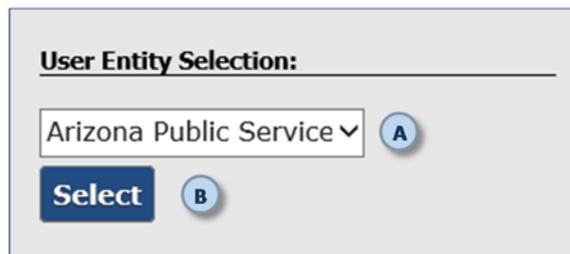


Figure 2: User Entity Selection Screen

To identify the Entity the user will represent during this session:

- A. Select the **Entity Name** (A) from the Entity list. Only those Entities for which this user has been vetted will appear.
- B. Click the **Select** (B) button.

## Logging Out

To log out of the system, click the **Log Out** link (A) in the upper right of the **BESNet Dashboard** header.



Figure 3: BESNet Dashboard Header

## BESNet Dashboard Overview

The **BESNet Dashboard** is the home screen for the BESNet application. The Dashboard is displayed when a user logs into the application and whenever the **Home** link is pressed on any BESNet application page.

The screenshot shows the BESNet Dashboard interface. At the top, there is a header with the title "ERO Enterprise BES Notifications and Exceptions Tool" and user information "BESnetEntity53@test.com / Help" and a "Log Out" button. Below the header is a navigation bar (A) with links for "Home", "User", "Create Exception Request", "Create Self Determination", and "Reports". The main content area is titled "Exception Requests" and includes a "Show in Dashboard" filter section (B) with checkboxes for "Archived", "Withdrawn", "Split", "Certified", "SD In NERC Review", "Reviewing Regions", and "TRP Assigned", along with an "Apply" button. Below the filter is a "Show" dropdown set to "10" and a search box. The main part of the dashboard is a table (C) listing Exception Requests with columns for ID, Status, Stage, Type, Submitted, Submitting Entity, Region, and Next Action. Two rows are visible in the table.

ID	Status	Stage	Type	Submitted	Submitting Entity	Region	Next Action
2014-RFC- NCR00782- Exception00007	<u>Challenge Completed</u>	<u>Certification - Approved</u>	Exception Request	05/23/2014 18:43:11 EST	1 FirstEnergy Generation Corp.	RFC	04/01/2017 - Re-Certification   Gov't Entity Challenge
2014-MRO- NCR02602- SD00030	<u>New</u>	<u>Regional Review</u>	Self-Determination	06/05/2014 10:03:11 EST	1 Allegheny Power [LSE, TO]	MRO	Regional Decision

Figure 4: BESNet Dashboard

- A. The Dashboard navigation bar (A) contains the following options:
- Home:** Returns the user to the **BESNet Dashboard**.
  - User:** Provides options for user management and account management.
  - Create Exception Request:** Starts the process for creating a new Exception Request.
  - Create Self-Determination:** Starts the process for creating a new Notification of Self-Determination.
  - Reports:** Contains options for reporting.

*NOTE: Some options may not appear, based on a user's role in the system.*

- B. The **Show in Dashboard** Filter (B). By default, Exception Requests that are archived or withdrawn, or that have been split and are therefore no longer active, do not appear in the Exception Requests listing. This filter allows the user to include any or all of the Exception Requests in the listing by checking the box next to the Exception Request state that should be included. These operate as follows:
- Archived:** When checked, the BESNet Dashboard will include Exception Requests that have been archived, cancelled, or terminated.
  - Withdrawn:** When checked, the BESNet Dashboard will include Exception Requests that have been withdrawn; that is, those submitted to Initial Review, but then rescinded by the Submitting Entity.

- c. **Split:** When checked, the Dashboard will include Exception Requests that have been split into one or more newer Exception Requests and exist as a historical record.

*NOTE: For more information about Split Exception Requests, see sections on **Splitting an Exception Request** or **Recertifying an Exception Request**.*

- d. **Self-Determination in NERC Review:** When checked, the Dashboard will include any Notifications of Self-Determination that are awaiting NERC review.
- C. The **Dashboard List** (C) contains a list of all **Exception Requests** and **Notifications of Self-Determination**. Here, the user can:
- a. Change the number of records that appear in the list, by changing the **Show in Entries** value.
  - b. Change the display order of the entries in the list, by clicking on the header of each column.
  - c. Filter the contents of the list, by entering text into the boxes underneath each column header.
  - d. Open a record, by clicking on the **Status** link.
  - e. Navigate through the pages in the list, by clicking the navigation links to the bottom right of the list.

# Creating an Exception Request

**Exception Requests** can be made for either **Inclusion** or **Exclusion** of Elements from the BES. The procedure for both is the same, so only an **Exception Request for Exclusion** is included in these instructions.

*NOTE: For users who are authorized for several Entities, be sure that you are logged into BESNet as the correct Entity.*

To start the Exception Request process:

1. Click the **Create Exception Request (A)** menu item on the **BESNet Dashboard Menu**.
2. Select whether the Exception Request is **For Inclusion** or **For Exclusion (B)**. This will bring up the **Create Exception Request Screen**.

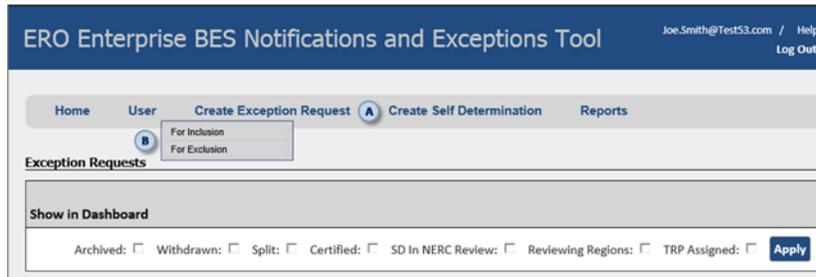


Figure 5: BESNet Dashboard Menu Detail

The **Create Exception Request Screen** is broken into three sections for these instructions.

## Completing Section 1: General Information

**Section 1** contains a **General Information (A)** section about the Submitting Entity, pre-populated from the user information. Basic information about the Submitting Entity (i.e., the Entity with which the user is operating) can be edited here, including the Address, City, Country, State, and Postal Code.

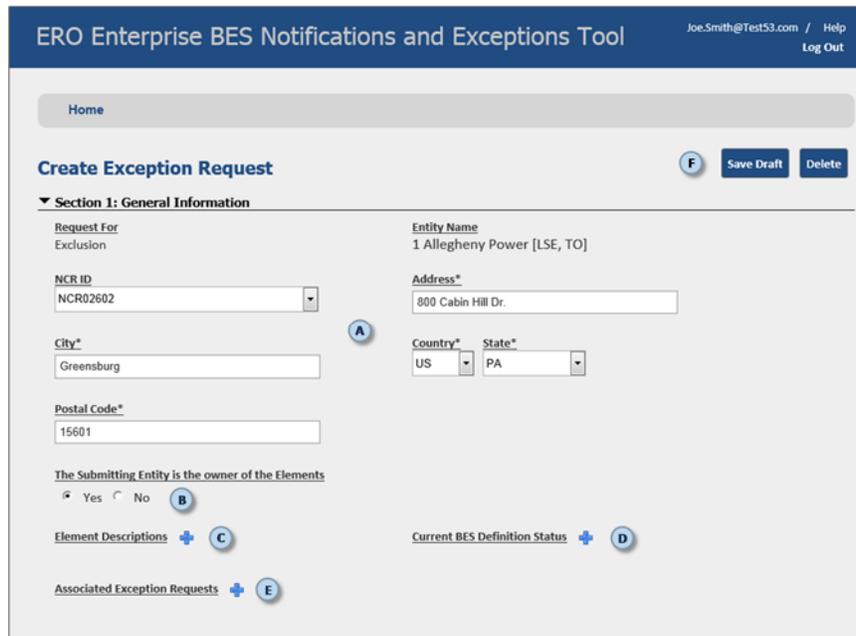


Figure 6: Create Exception Request Screen Section 1

*NOTE: If any of this information is modified, the BESNet address record will be updated for this Entity, not just for this Exception Request.*

Section 1 has the following additional areas of interest:

- A. Noting whether the **Submitting Entity is the Owner of the Elements** (B) in the Exception Request.
- B. The **Element Descriptions** (C), the **Current BES Definition Status** (D), and **Associated Exception Request** (E).
- C. **Save Draft** and **Delete** buttons (F), which can be used at any time.

*NOTE: The BESNet application automatically saves a draft of the Exception Request if the browser is closed or the session is interrupted.*

### Specifying the Submitting Entity

If the Submitting Entity is the owner of the element, select **Yes (B)**.

If the Submitting Entity is NOT the owner of the Element(s) in the Exception Request, the user must select **No** (Figure 6, B) below the label for **The Submitting Entity is the owner of the Elements**. Doing so will modify Section 1 of the **Create Exception Request Screen**.

Figure 7: Create Exception Request Screen with Non-Owner Submitting Entity

Indicate the role of the Submitting Entity by clicking on the **Blue + Sign (A)** that appears next to **Submitting Entity Role(s)** on the **Create Exception Request Screen**. This will take the user to the **Add Submitting Entity Relationship to Owning Entity Screen**.

Figure 8: Add Submitting Entity Relationship to Owning Entity Screen

Select the appropriate relationship between the Submitting Entity and the Owner of the Elements(s) in the Exception Request (A), and click on the **Add** button (B). This will take the user back to the **Create Exception Request Screen**.

*NOTE: If you cannot find a specific Entity Association Type you expected to see in the list, contact your Region.*

## Specifying the Owning Entity

Specify the **Owning Entity** of the Element(s) in the Exception Request by clicking on the **Search** button (Figure 7, B) on the **Create Exception Request Screen**. This will take the user to the **Owning Entities Screen**.

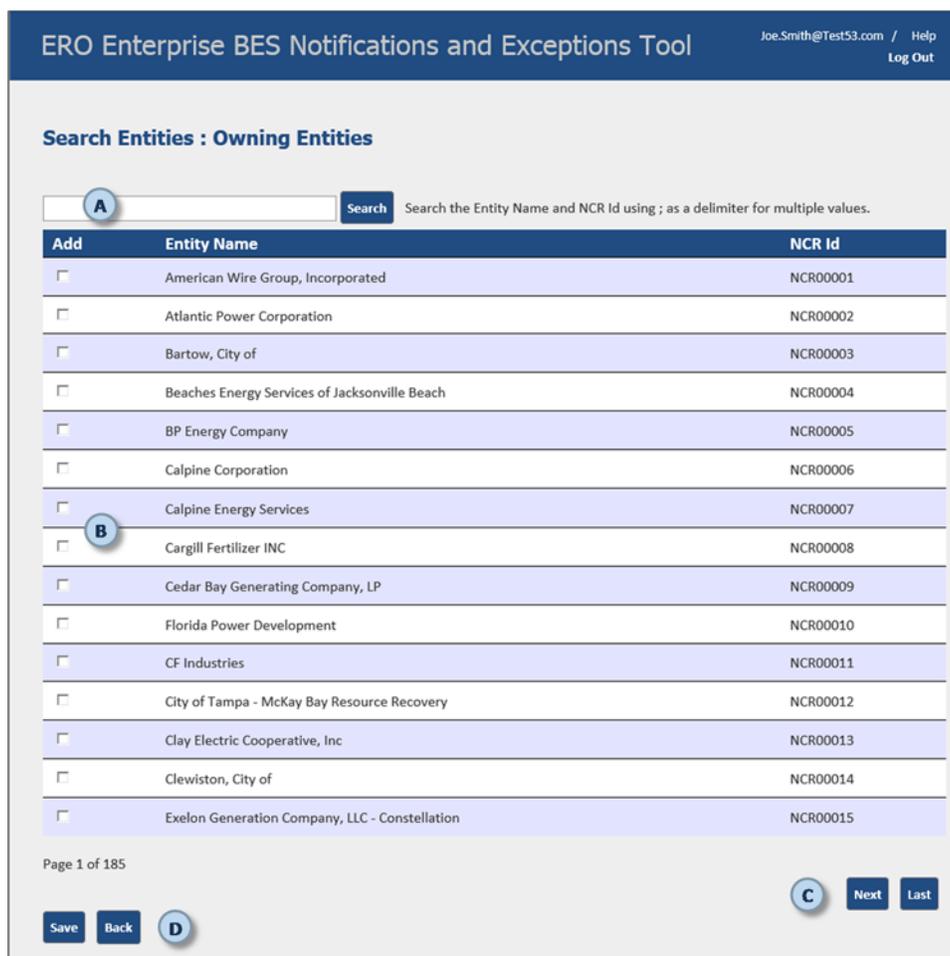


Figure 9: Owning Entities Screen

- A. The user should type the beginning of the Entity's name in the **Search** window (A), and click on the **Search** button. This will perform an on-the-fly search of the Entity database and only display Entities that have the search string in their names.
- B. The user then should select the checkbox (B) for the appropriate **Owning Entity** for the Element(s) in this Exception Request.

*NOTE: If you cannot find a specific Entity you expected to see in the list, contact your Region.*

- C. The **Next** and **Last** buttons (C) can be used to page through the list of Owning Entities.
- D. The **Add** button (D) will add the selected **Reliability Coordinator(s)** to the Exception Request, which will return the user to the **Create Exception Request Screen**.

The **Create Exception Request Screen** will now show the **Owning Entity** of the Element(s) in the Exception Request, its **NCR Number (A)**, and the Submitting Entity's **Relationship to the Owner (B)**.

### Selecting Element Description

*NOTE: An Exception Request can contain more than one Element, but all Elements in the Exception Request should be of the same type and should be being similar in their Current Definition Status.*

The user must select the **Element Description**. This is accomplished by clicking on the blue **Plus Sign** at the **Element Descriptions** (Figure 6, C). This will bring the user to the **Add Element Description Screen**.

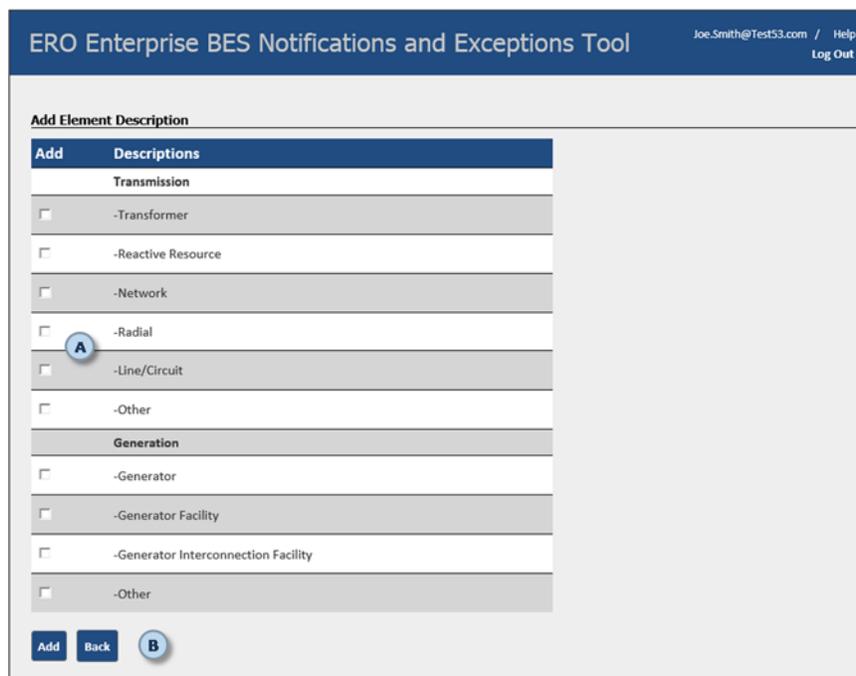


Figure 7: Add Element Description Screen

The user should select the appropriate **Element Description** for which the Exception Request is being submitted (A), and click on **Add (B)** to complete the action. This will return the user to the **Create Exception Request Screen**.

### Selecting Basis for Self-Determination

The user must select the **Current BES Definition Status** for the Element being included or excluded. This is accomplished by clicking on the blue **Plus Sign** at the **Current BES Definition Status** (Figure 6, D). This will bring the user to the **Add BES Definition Screen**.

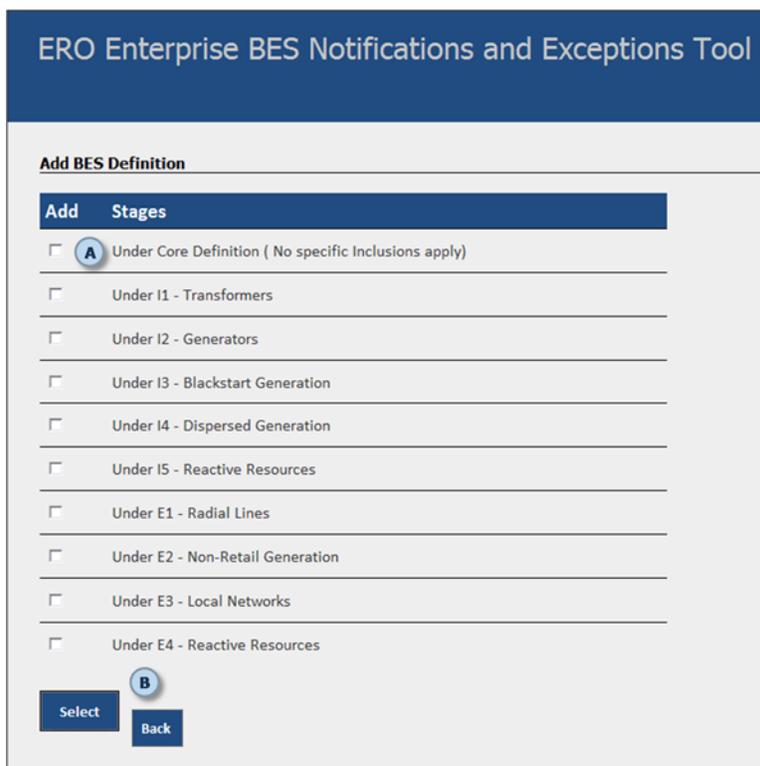


Figure 8: Add BES Definition Screen

The user should select the appropriate **Current BES Definition Status** for the Element for which the Exception Request is being submitted (A), and click on **Add** (B) to complete the action. This will return the user to the **Create Exception Request Screen**.

### Adding Associated Exception Requests

The user has the option of adding Associated Exception Request references to the Exception Request in order to provide interested parties a reference to similar Requests that might provide additional justification to an Exception Request’s validity.

To do so, the user should click on the blue **Plus Sign** at the **Associated Exception Request** (Figure 6, E). This will bring the user to the **Add Exception Request References Screen**.

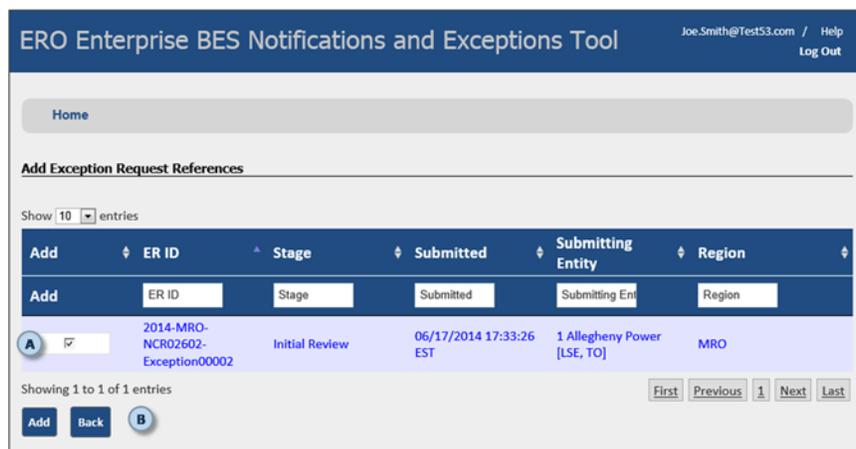


Figure 9: Add Exception Request References Screen

To add a reference to another Exception Request, the user should click on the checkbox (A) next to the desired Exception Request, and click on the **Add** button (B) on the **Add Exception Request References Screen**. This will add the reference to the current Exception Request and return the user to the **Create Exception Request Screen**.

### Removing an Element Description or Basis for Self-Determination

Once the **Element Description**, **Current BES Definition Status**, and **Associated Exception Requests** are selected or entered, the **Create Exception Request Screen** will show **Red Xs** (A) near their areas on the screen.

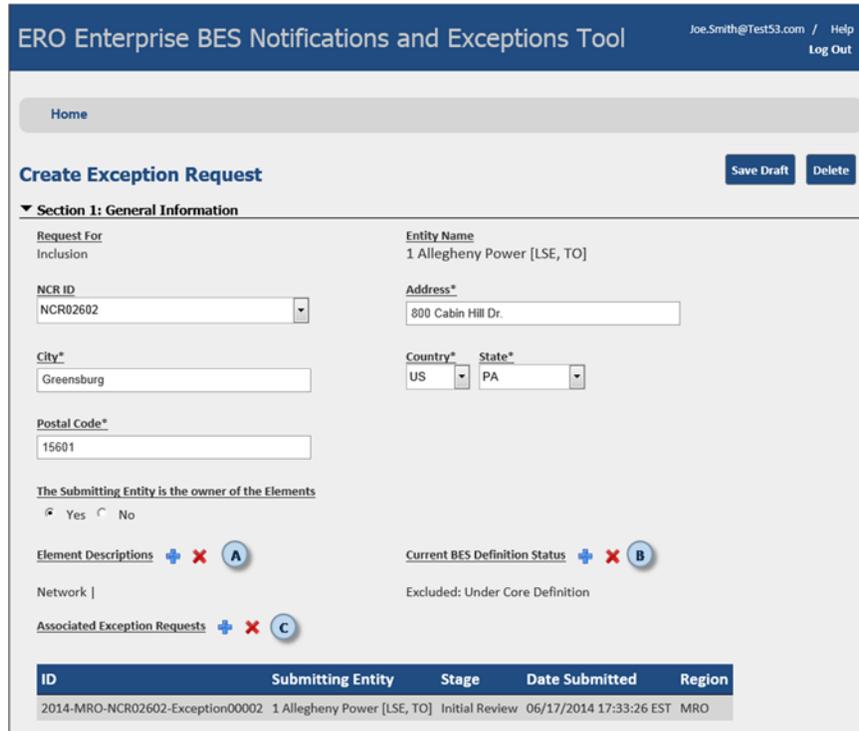


Figure 10: Create Exception Request Screen

If any of those items should be removed or corrected, click on the **Red X**. This will bring the user to the appropriate removal screen (**Remove Element Description Screen** used here as an Example).

The user should check the box of the **Description** (A) to be removed, then click on the **Remove** button (B) to complete the action. This will return the user to the **Create Exception Request Screen**.

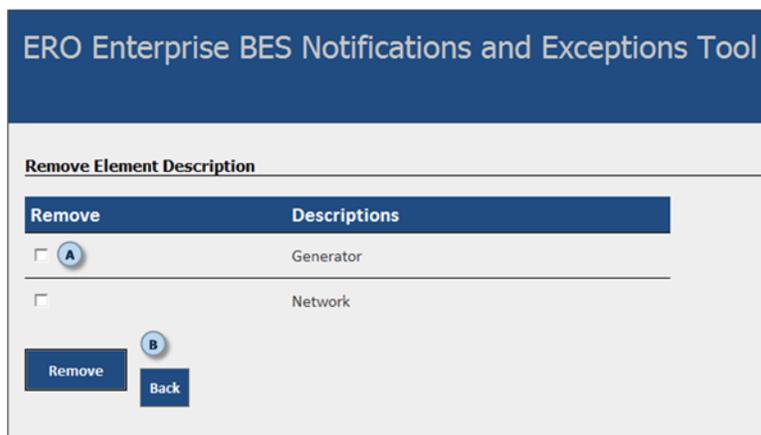


Figure 11: Remove Element Description Screen

## Completing Section 2: Detailed Information

The **Detailed Information Section 2** contains information for the **Submitting Entity Contact Information (A)** and the Entity’s authorized representative that is certifying the Exception Request.

The user must enter:

- A. The **Submitting Entity Contact Information (A)**.
- B. The NCR of Entities with Scopes of Responsibility for which the Element(s) of this Exception Request applies (B). Required Scope of Responsibility groups are marked with an asterisk.
- C. The **Name and Title** of the **Authorized Representatives (C)** who will be certifying this Exception Request submittal.
- D. A brief statement of basis, consistent with Section 3.1 of Appendix 5C of the NERC Rules of Procedure, on which the Submitting Entity contends the Exception Request should be approved (**REQUIRED**).

Figure 12: Create Exception Request Screen Section 2

### Specifying Scope of Responsibility Entities

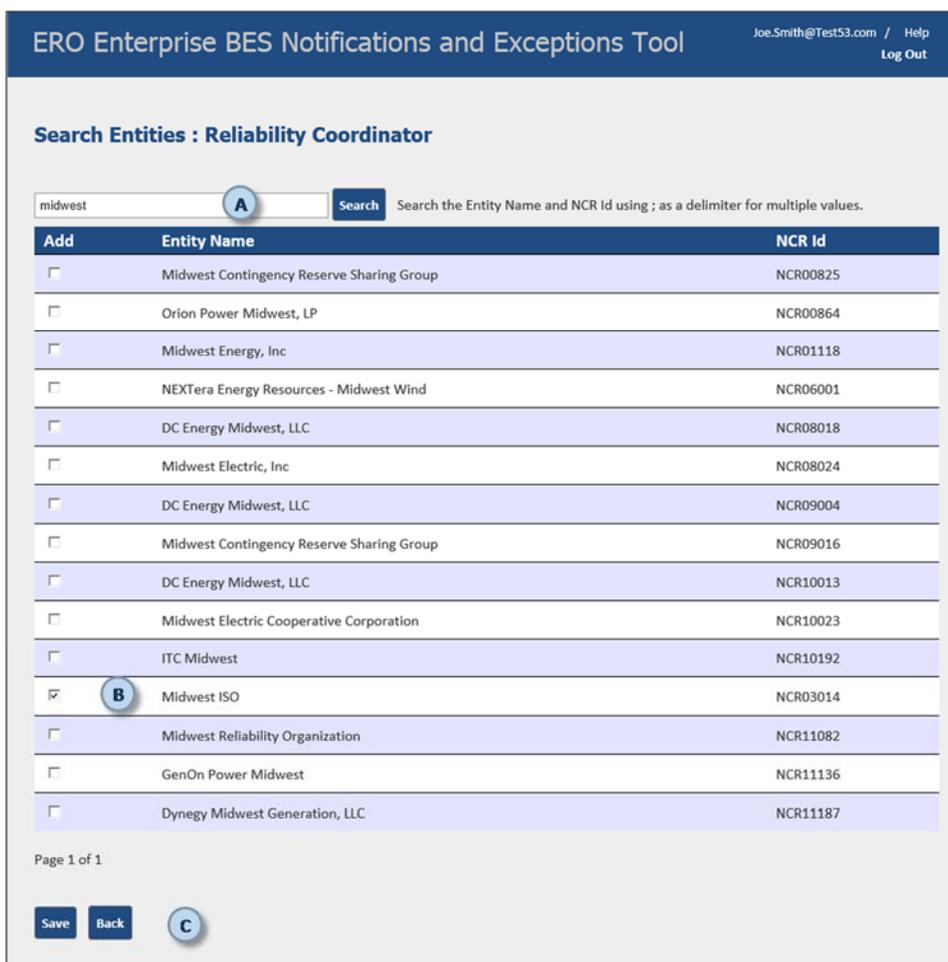
The user must enter the NCR numbers of Entities with **Scopes of Responsibility** for the Element(s) to which this Exception Request applies (B). Scope of Responsibility groups that are required for the Exception Request are marked with an asterisk.

*NOTE: All Scope of Responsibility assignments—except Additional Owner—are required for submission (designated by asterisks).*

*NOTE: Only The Lead Region can change Scope of Responsibility Entity assignments after the Exception Request has been submitted.*

To select the Scope of Responsibility Entities, the user should click on each of the classifications or its related **Blue + Signs** (Figure 15, B). This will initiate an on-the-fly **Search Entities Screen** for the specific type of Scope of Responsibility Entities.

The Search Entities for Reliability Coordinators function is used here as an example, but all **Scope of Responsibility Entities** selections operate the same way.



**Figure 13: Search Entities Screen – Reliability Coordinators**

- A. The user should type the beginning of the Entity’s name in the **Search** window (A) and click **Search**. This will search the Entity database and only display Entities with the search string in their names.
- B. The user then should select the checkbox (B) for the appropriate **Reliability Coordinator(s)** Associated with this Exception Request.

*NOTE: If you cannot find a specific Entity you expected to see in the list, contact your Region.*

- C. The **Save** button (C) will then add the selected **Reliability Coordinator(s)** to the Exception Request and return the user to the **Create Exception Request Screen**.

## Adding an Element to an Exception Request

Once the general information is input in Sections 1 and 2 for the Exception Request, the user must add the associated Elements. To do this, the user should click on the **Add** button (A) on the **Create Exception Request Screen**, which will take the user to the **Add Element Screen**.

Elements  
Element Name, Element Type, and Element Description identified by terminal connections (including location(s), voltage level(s) and unit capacity(-ies)). This information should be sufficient to identify the physical location and electrical designation of the Element(s) so that the Request can be processed. (Add more elements as needed)

Primary Name ⓘ	Type	FERC Jurisdiction	Secondary Name ⓘ	Primary Voltage	Secondary Voltage ⓘ	Specific Type	MVA Rating ⓘ
<input type="button" value="Add"/> (A)							
<input type="checkbox"/> I certify that all entities related to this Exception Request are authorized to access all comments and documents associated with it.							
<input type="button" value="Submit"/> <input type="button" value="Save Draft"/> <input type="button" value="Delete"/>							

Figure 14: Create Exception Request Screen Detail – Add Element

Several functions are performed on the **Add Element Screen** (Figure 18):

- The **Element Type** (A) has a pull-down menu (B) allowing selection of the **Element Type**.
- The user should select the **Element Type** from the pull-down menu (B), which will display data entry screens specific to that **Element Type**. Additional information on the types is in the **Element Type** section of this document.
- The Region(s) where the Element resides is selected in the **Select the Region** area (C). Multiple regions can be selected.
- Attach necessary documentation<sup>1</sup> by clicking on the **Add** button (D). Additional guidance on adding documents is included in the **Adding Documents** section of this guide.

*NOTE: At least one supporting document is required for each Element in an Exception Request.*

- Click on the **Add Element** button (E) after entering data. This will complete the addition of the Element to the Exception Request. That action will return the user to the **Create Exception Request Screen**, where all Elements that are part of the Exception Request are displayed.
- Informational points are denoted by an “i” (F) throughout the **Add Element Screens**. Hovering over them will reveal additional information.

<sup>1</sup> Refer to the *BES Notification Review Guidelines* for additional information on necessary documentation.

ERO Enterprise BES Exceptions and Notifications Tool
BESnetEntity15@test.com / Help
Log Out

---

**Add Element**

Add Element
Cancel
Back

Element Name, Element Type, and Element Description identified by terminal connections (including location(s), voltage level(s) and unit capacity(-ies)). This information should be sufficient to identify the physical location and electrical designation of the Element(s) so that the Request can be processed. (Add more elements as needed)

Element Type\* Generation Facility

Within US Borders?  
 Yes  No

Generation Station Name\*

Generator Unit Name\*

Connected Transmission Voltage (kV)\*  
 HVDC

Generator Unit Id\*

Generator Unit Type\*  
 Steam Turbine, Including Nuclear, Geothermal, Solar Steam (Does not include combined cycle)

Gross Nameplate Rating (MVA - Numeric Only)\*

Comments

**Select the Region(s) where your Element resides.**

Select	Region
<input type="checkbox"/>	FRCC
<input type="checkbox"/>	MRO
<input type="checkbox"/>	NPCC
<input type="checkbox"/>	RFC
<input type="checkbox"/>	SERC
<input type="checkbox"/>	SPP
<input type="checkbox"/>	TRE
<input type="checkbox"/>	WECC

---

Document Name	Document Author	Date Submitted
<input type="button" value="Add"/>		

---

Add Element
Cancel
Back

Figure 15: Add Element Screen

## Element Types

When adding an Element to an Exception Request, the fields to be completed vary by Element. Screenshots of each Element’s properties are provided below for reference.

Table 1 shows the types of Elements listed in the **Element Type** pull-down (A) on the **Add Element Screen**.

Table 1: Element Types							
	Within FERC Jurisdiction	Name(s)	Voltage (kV)	ID	Specific Type	MVA Rating	Comments
<b>Generation Facility</b>	Yes or No, Required	Generation Station Name, Required; Unit Name, Required	Connected AC Transmission Voltage, Required, from a list of values	Unit ID, Required	Required, from a list of Generator Unit Types	Gross Nameplate Rating, Required	Optional
<b>Circuit</b>	Yes or No, Required	From Point Name, Required; To Point Name, Required; Common Element Name, Required	From Point kV, Required, from a list of values; To Point kV, Required, from a list of values	Circuit ID, Optional	Required, from a list of Circuit Types	Normal Rating, Optional	Optional
<b>Substation, DC Converter</b>	Yes or No, Required	Converter Name, Required	Connected AC Transmission Voltage, Required, from a list of values	N/A	N/A	Normal Rating, Optional	Optional
<b>Substation, Shunt Device</b>	Yes or No, Required	Network Name, Required; Device Name, Required	Station kV, Required, from a list of values	N/A	Device Type	Normal Rating (MVA or MVAR), Optional	Optional
<b>Network</b>	Yes or No, Required	Network Name Required	Connected AC Transmission Voltage, Required, from a list of values	N/A	N/A	N/A	Optional

**NOTE: Multiple Elements may be included in a single Exception Request. However, they should all be of a similar nature (circuits, transformers, etc.).**

## Add a Generation Facility

If the user clicks on **Generation Facility** in the **Element Type** section of the **Add Element Screen**, the following **Generation Facility Screen** appears.

Figure 16: Add Generation Facility Screen

- A. Select whether the **Generation Facility** is within U.S. Borders (A).
- B. Provide the **Generation Station Name** (B).
- C. Provide the **Generator Unit Name** (C).
- D. Select the **Connected Transmission Voltage** (D) from the pull-down list.
- E. Provide the **Generator Unit ID** (E).
- F. Select the **Generator Unit Type** from the pull-down list.
- G. Provide the **Gross Nameplate Rating** in MVA (G). One decimal point is allowed.
- H. Provide **Comments** (H) if desired.
- I. Click on the **Add Element** button (I) to save the information. This will bring the user back to the **Create Exception Request Screen**.

## Add a Circuit

If the user clicks on **Circuit** in the **Element Type** section of the **Add Element Screen**, the following **Circuit Screen** appears.

The screenshot displays the 'Add Element' form for a 'Circuit'. The form includes the following fields and callouts:

- K**: Buttons for 'Add Element', 'Cancel', and 'Back'.
- A**: 'Within US Borders?' with radio buttons for 'Yes' and 'No'.
- B**: 'From Point Name\*' text input field.
- C**: 'To Point Name\*' text input field.
- D**: 'Common Element Name\*' text input field.
- E**: 'From Point kV\*' dropdown menu (currently showing 'HVDC').
- F**: 'To Point kV\*' dropdown menu (currently showing 'HVDC').
- G**: 'Circuit Type\*' dropdown menu (currently showing 'AC Line (Includes Series Elements)').
- H**: 'Gross Nameplate Rating (MVA - Numeric Only)\*' text input field.
- I**: 'Circuit ID' text input field.
- J**: 'Comments' text input field.

Two dropdown menus are shown in detail:

- From Point kV\***: HVDC, 765, 735, 500, 360, 345, 315, 287, 230, 220, 161, 138, 120, 115, 110, 92, 69, Below 69, Other.
- Circuit Type\***: AC Line (Includes Series Elements), AC Line (Includes Series Elements), DC Line, Transformer, Phase-Shifting Transformer, Variable Frequency Transformer, Other.

Figure 17: Add Circuit Screen

- A. Select whether the **Circuit** is within U.S. Borders (A).
- B. Provide the **From Point Name** (B).
- C. Provide the **To Point Name** (C).
- D. Provide the **Common Element Name** (D) for the **Circuit**.
- E. Select the **From Point kV** (E) from the pull-down list.
- F. Select the **To Point kV** (F) from the pull-down list.
- G. Select the **Circuit Type** (G) from the pull-down list.
- H. Provide the **Gross Nameplate Rating** in MVA of the **Circuit** (H). One decimal point is allowed.
- I. Provide the **Circuit ID** (I).
- J. Provide **Comments** (J) if desired.

- K. Click on the **Add Element** button (I) to save the information. This will bring the user to the **Create Exception Request Screen**.

**Add a DC Converter**

If the user clicks on **Substation – DC Converter** in the **Element Type** section of the **Add Element Screen**, the following **Circuit Screen** appears.

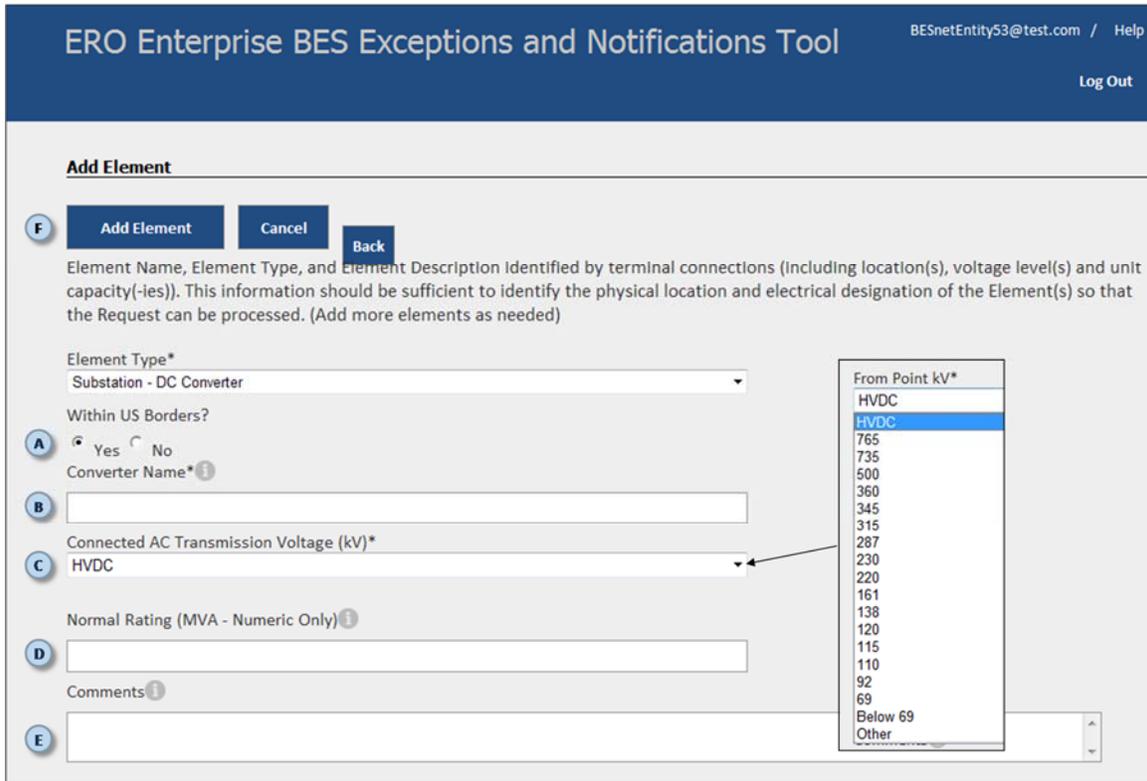


Figure 18: Add DC Converter Screen

- A. Select whether the **DC Converter** is within U.S. Borders (A).
- B. Provide the **Converter Name** (B).
- C. Select **HVDC** as the **Connected AC Transmission Voltage** (C) from the pull-down list.
- D. Provide the **Normal Rating** in MVA for the **DC Converter** (D). One decimal point is allowed.
- E. Provide **Comments** (E) if desired.
- F. Click on the **Add Element** button (F) to save the information. This will bring the user to the **Create Exception Request Screen**.

### Add a Substation Shunt Device

If the user clicks on **Substation – Shunt Device** in the **Element Type** section of the **Add Element Screen**, the following **Shunt Device Screen** appears.

The screenshot shows the 'Add Element' screen for a Substation Shunt Device. The form includes the following fields and callouts:

- H:** Add Element button
- A:** Within US Borders? (Yes/No radio buttons)
- B:** Station Name\*
- C:** Device Name\*
- D:** Station kV (HVDC)
- E:** Device Type\* (Reactor)
- F:** Normal Rating (MVA or MVAR)
- G:** Comments

Two dropdown menus are open:

- From Point kV\*:** HVDC, 765, 735, 500, 360, 345, 315, 287, 230, 220, 161, 138, 120, 115, 110, 92, 69, Below 69, Other
- Device Type\*:** Reactor, Reactor, Capacitor, SVC, StatCom, Other

Figure 19: Add Shunt Device Screen

- A. Select whether the **Shunt Device** is within U.S. Borders (A).
- B. Provide the **Station Name** (B) where the device is located.
- C. Provide the **Device Name** (C).
- D. Select the **Station kV** (D) from the pull-down list.
- E. Select the **Device Type** (E) from the pull-down list.
- F. Provide the **Normal Rating** in MVA for the **Device** (F). One decimal point is allowed.
- G. Provide **Comments** (G) if desired.
- H. Click on the **Add Element** button (H) to save the information. This will bring the user to the **Create Exception Request Screen**.

## Add a Network

If the user clicks on **Network** in the **Element Type** section of the **Add Element Screen**, the following **Network Screen** appears.

The screenshot shows the 'Add Element' screen in the ERO Enterprise BES Exceptions and Notifications Tool. The page title is 'ERO Enterprise BES Exceptions and Notifications Tool' and the user is logged in as 'BESnetEntity53@test.com / Help'. The 'Add Element' section contains the following fields and options:

- Element Type\***: A dropdown menu with 'Network' selected.
- Within US Borders?**: Radio buttons for 'Yes' (selected) and 'No'.
- Network Name\***: A text input field.
- Connected AC Transmission Voltage\***: A dropdown menu with 'HVDC' selected. A list of voltage levels is shown in a separate window, including HVDC, 765, 735, 500, 360, 345, 315, 287, 230, 220, 161, 138, 120, 115, 110, 92, 69, Below 69, and Other.
- Comments**: A text input field.

At the top of the form, there are buttons for 'Add Element', 'Cancel', and 'Back'. A circled 'E' is next to the 'Add Element' button. A circled 'A' is next to the 'Within US Borders?' radio buttons. A circled 'B' is next to the 'Network Name\*' input field. A circled 'C' is next to the 'Connected AC Transmission Voltage\*' dropdown. A circled 'D' is next to the 'Comments' input field.

Figure 20: Add Network Screen

- Select whether the **Network** is within the U.S. Borders (A).
- Provide the **Network Name** (B).
- Select the **Connected AC Transmission Voltage** (C) from the pull-down list.
- Provide **Comments** (D) if desired.
- Click on the **Add Element** button (E) to save the information. This will bring the user to the **Create Exception Request Screen**.

## Selecting a Region for the Element

The user must select the Region(s) in which the Element is located. Multiple Regions can be selected for Circuits. To accomplish this, the user should check the checkbox(es) (A) for the appropriate Region(s) for the Exception Request.

Select	Region
<input type="checkbox"/>	FRCC
<input type="checkbox"/>	MRO
<input checked="" type="checkbox"/>	NPCC
<input type="checkbox"/>	RFC
<input type="checkbox"/>	SERC
<input type="checkbox"/>	SPP
<input type="checkbox"/>	TRE
<input type="checkbox"/>	WECC

Figure 21: Select Region(s) Section of Add Element Screens

## Add Supporting Documentation for an Element

Supporting documentation can be added to an Exception Request in two ways: at the Exception Request level and at the Element level. At least one supporting document<sup>2</sup> must be supplied for each Element in the Exception Request. To add a document, click the **Add** button in the Document section of the **Add Element Screen** (A). This will take you to the **Add Element Document Screen**.

Document Name	Document Author	Date Submitted	Last Updated	Confidential Type
<input type="button" value="Add"/> (A)				
<input type="button" value="Save"/> <input type="button" value="Delete"/> <input type="button" value="Back"/>				

Figure 22: Document Section of Add Element Screen

ERO Enterprise BES Exceptions and Notifications Tool

BESnetEntity53@test.com / Help

Log Out

**Add Element Document**

Document Name\*  (A)

Choose Document (50mb Max File Size)  Browse... (B)

Confidential Type:  (C)

- Non Confidential
- Confidential Business and Market Information
- Critical Energy Infrastructure Information
- Critical Infrastructure Information
- Cyber Security Incident Information

Description  (D)

(E)

Figure 23: Add Element Document Screen

<sup>2</sup> Refer to the *BES Notification Review Guidelines* for additional information on necessary documentation.

- A. Provide a **Document Name** (A).
- B. Select a document using the **Choose Document** browsing area (B). NOTE: There is a 50 MB file size limit.
- C. Select a **Confidential Type** (C) from the pull-down list.
- D. Provide a **Description** (D) for the document.
- E. When the **Add Element Document** form is complete, click on **Create** to attach the document to the Element. This will take the user back to the **Add Element Screen**.

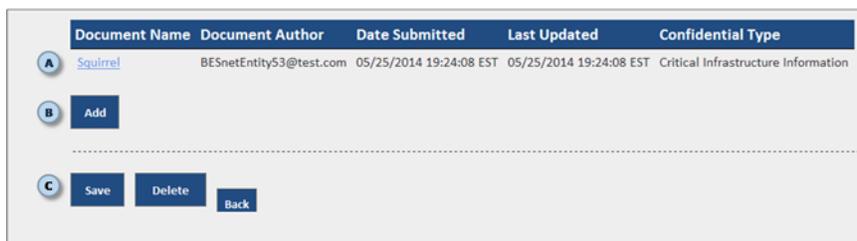


Figure 24: Add Element Screen Showing Attached Document

When the supporting documentation has been attached to the Exception Request, the **Add Element Screen** will show that the **Document** (A) is attached to the Element. If additional files need to be attached as supporting documentation, the user should click on the **Add** button (B), and the **Add Document Screen** will appear again.

### Removing Documentation from an Element

If the user wishes to remove a supporting document from an Element, the user should select the Element associated with the document to be removed from the **Element Section** at the bottom of the **Create Exception Request Screen** (A).

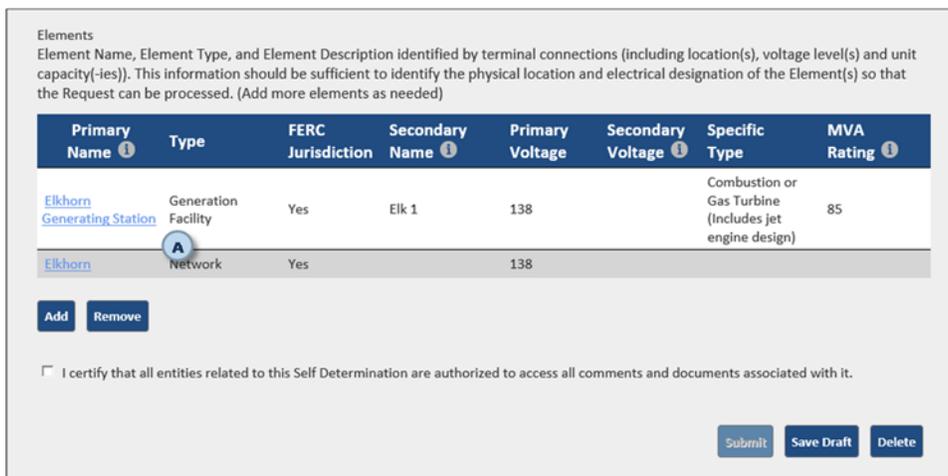


Figure 25: Create Exception Request Screen – Elements Section

This will bring the user to the **Edit Element Screen**. The user should then select the document to be removed from the bottom of the **Edit Element Screen** (Figure 29, A).

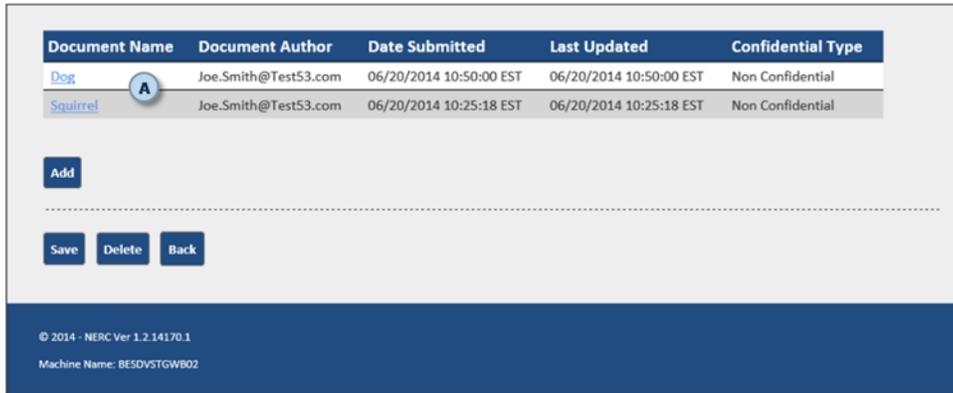


Figure 26: Edit Element Screen

This will bring the user to the **Edit Document Screen**. The user should then click on the **Delete** link (A).

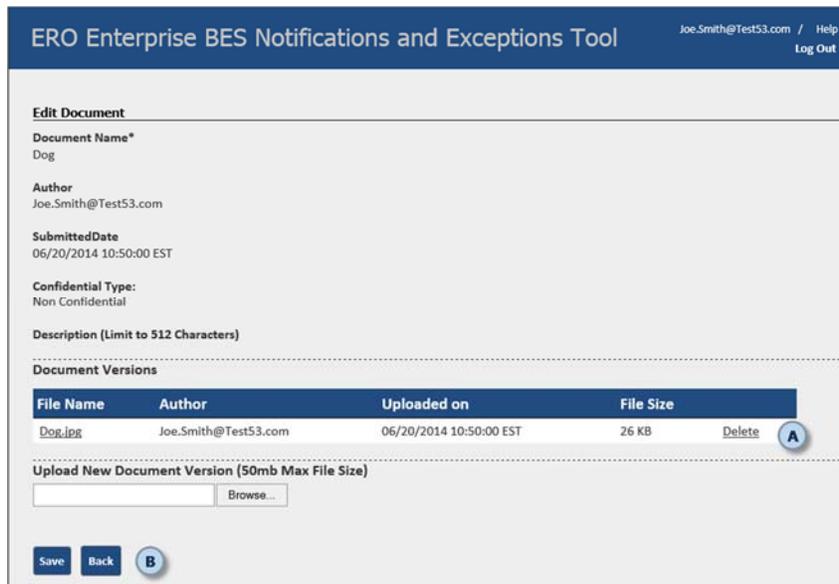


Figure 27: Edit Document Screen

That action will delete that document and return the user to the **Create Exception Request Screen**.

### Editing an Element in an Exception Request

If the user wishes to edit or remove an Element from the Exception Request, the user should select the **Element to be edited** (A) in the **Elements** section of the **Create Exception Request Screen**.

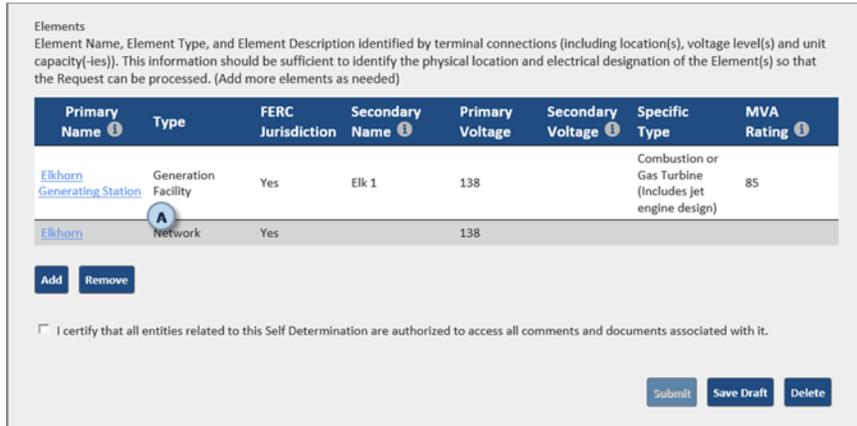


Figure 28: Create Exception Request Screen – Elements Section

This will take the user to the **Edit Element Screen**.

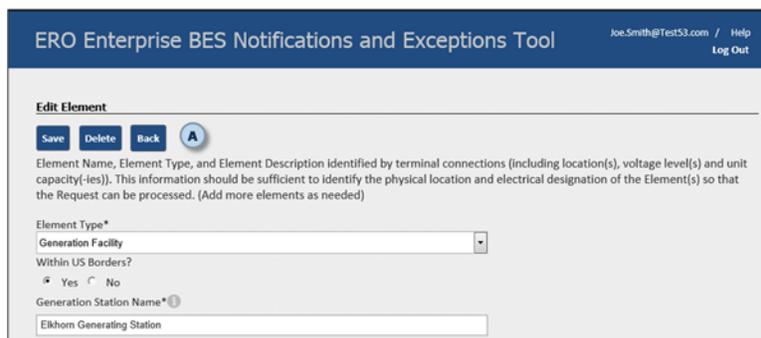


Figure 29: Top of Edit Element Screen

The user should make the desired edits to the Element. When the edits are completed, the user should click on the **Save** button (A) at the top or bottom of the **Edit Element Screen**.

### Removing an Element from an Exception Request

If the user wishes to edit or remove an Element from the Notification of Self-Determination, the user should click on the **Remove** button (A) in the **Element** section of the **Create Exception Request Screen**.

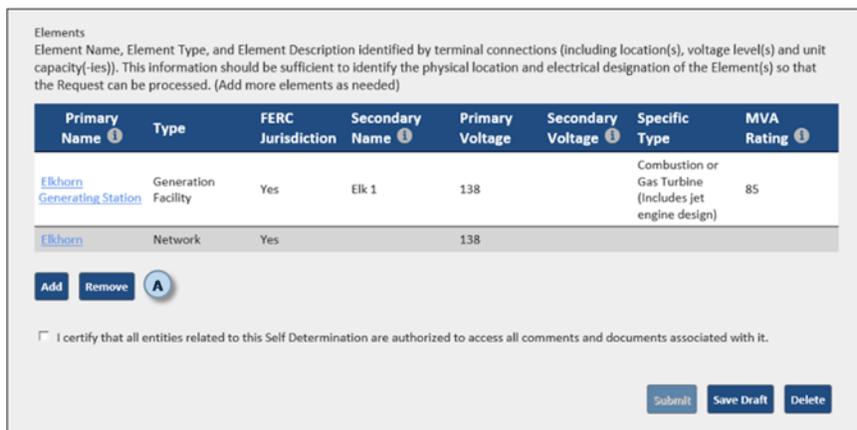


Figure 30: Create Exception Request Screen – Elements Section

This will bring the user to the **Remove Element Screen**.

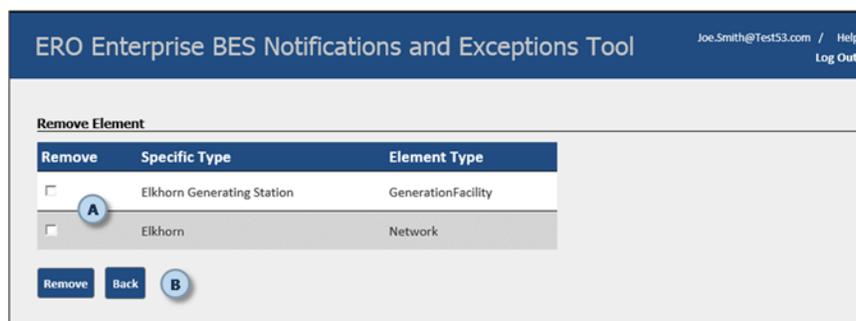


Figure 31: Remove Element Screen

The user should then select the Element to be removed by selecting the appropriate checkbox (A) and clicking the **Remove** button (B). This will take the user back to the **Create Notification of Self-Determination Screen**.

*Note: This action will delete that Element from the Notification, as well as all documentation and comments associated with that Element.*

## Completing Section 3: Detailed Engineering Information – Documents

### Attaching Exception Request Documents

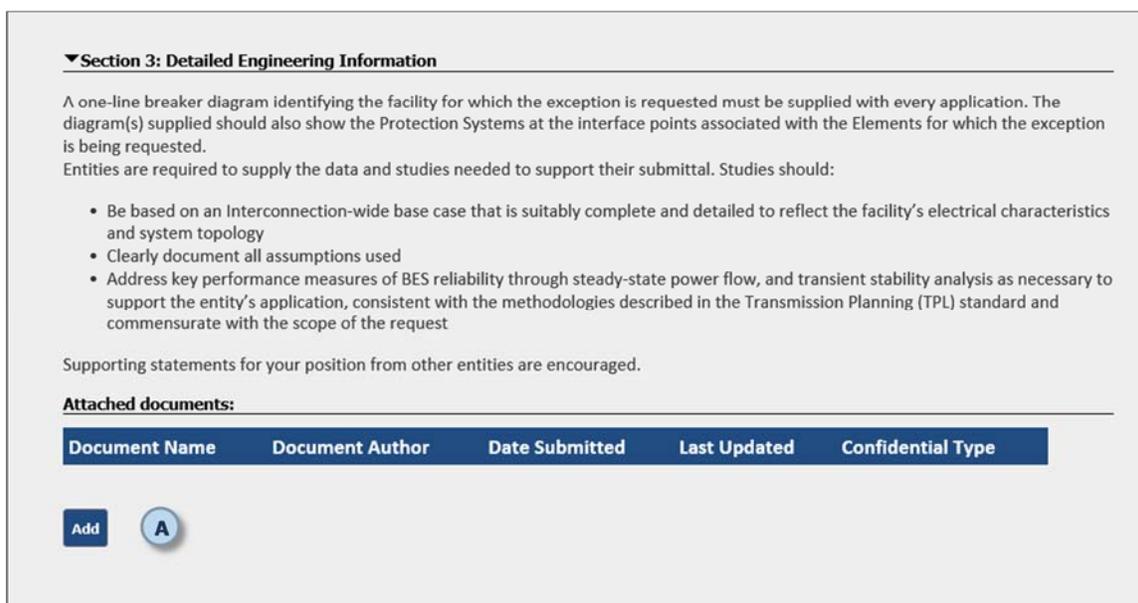


Figure 32: Create Exception Request Section 3: Attached Documents

Section 3 contains **Detailed Engineering Information** about the Exception Request. The first part of Section 3 allows the user to attach supporting documents concerning the overall Exception Request. Those documents are in addition to the ones associated with the individual Elements of the Exception Request. Add a document by clicking the **Add** button (A). This will take the user to the **Add Document Screen**.

There, the user can:

- A. Provide a **Document Name** (A) for the document being attached.
- B. Select a document using the **Choose Document** browsing area (B).

*NOTE: There is a 50 MB file size limit.*

Figure 33: Add Document Screen

- C. Select a **Confidential Type** (C) from the pull-down list.
- D. Provide a **Description** (D) for the document.
- E. When the **Add Element Document** form is complete, click on the **Create** button to attach the document to the Exception Request. This will take the user back to the **Attach Documents Section** of the **Create Exception Request Screen**.

### Removing Exception Request Documents

If the user wishes to remove a document from an Exception Request, the user should click on the **Document** link (A) in the **Attach Documents Section** of the **Create Exception Request Screen**.

*Note: Documents can only be removed from an Exception Request while the request is still in draft form, prior to submitting to the Region for processing.*

▼ **Section 3: Detailed Engineering Information**

A one-line breaker diagram identifying the facility for which the exception is requested must be supplied with every application. The diagram(s) supplied should also show the Protection Systems at the interface points associated with the Elements for which the exception is being requested.  
 Entities are required to supply the data and studies needed to support their submittal. Studies should:

- Be based on an Interconnection-wide base case that is suitably complete and detailed to reflect the facility’s electrical characteristics and system topology
- Clearly document all assumptions used
- Address key performance measures of BES reliability through steady-state power flow, and transient stability analysis as necessary to support the entity’s application, consistent with the methodologies described in the Transmission Planning (TPL) standard and commensurate with the scope of the request

Supporting statements for your position from other entities are encouraged.

**Attached documents:**

Document Name	Document Author	Date Submitted	Last Updated	Confidential Type
<a href="#">Inertia</a> (A)	Joe.Smith@Test53.com	06/20/2014 12:46:20 EST	06/20/2014 12:46:20 EST	Non Confidential

**Add**

Figure 34: Attached Documents Section of the Create Exception Request Screen

This will bring the user to the **Edit Document Screen**. The user should then click on the **Delete** link (A) at the right side of the document to be deleted.

**Edit Document**

Document Name\*  
Dog

Author  
Joe.Smith@Test53.com

SubmittedDate  
06/20/2014 10:50:00 EST

Confidential Type:  
Non Confidential

Description (Limit to 512 Characters)

Document Versions

File Name	Author	Uploaded on	File Size
Dog.jpg	Joe.Smith@Test53.com	06/20/2014 10:50:00 EST	26 KB

Upload New Document Version (50mb Max File Size)

(A)

(B)

Figure 35: Edit Document Screen

That action will delete that document and return the user to the **Attach Documents Section** of the **Create Exception Request Screen**.

### Transmission Facility Details

If the Exception Request contains a **Transmission Facility Element(s)** (if **Transmission** was selected in the **Add Element Description** area of Section 1 of the Exception Request), the user will be required to complete the following information:

**Transmission Facility Details**

1. Is there generation connected to the facility?  
 Yes  No

If yes, what are the individual gross nameplate values of each unit and/or facility?

2. How does the facility impact permanent Flowgates in the Eastern Interconnection, major transfer paths within the Western Interconnection, or a comparable monitored facility in the ERCOT Interconnection or the Quebec Interconnection?

Please list the Flowgates or paths considered in your analysis along with any studies or assessments that illustrate the degree of impact:

3. Is the facility included in an Interconnection Reliability Operating Limit (IROL) in the Eastern Interconnection, ERCOT Interconnection, or Quebec Interconnection or a major transfer path rating in the Western Interconnection?

Yes  No

Please provide the appropriate list for your operating area:

Transmission Facility Details (continued)
<p>4. How does an outage of the facility impact the over-all reliability of the BES? Please provide study results that demonstrate the most severe system impact of the outage of the facility and the rationale for your response:</p> <div style="border: 1px solid black; height: 40px; width: 100%;"></div> <p>Is the facility used for off-site power supply to a nuclear power plant as designated in a mutually agreed upon Nuclear Plant Interface Requirement (NPIR)?</p> <p><input type="radio"/> Yes <input checked="" type="radio"/> No</p> <p>Description/Comments:</p> <div style="border: 1px solid black; height: 40px; width: 100%;"></div>
<p>5. Is the facility part of a Cranking Path associated with a Blackstart Resource?</p> <p><input type="radio"/> Yes <input checked="" type="radio"/> No</p> <p>Description/Comments:</p> <div style="border: 1px solid black; height: 40px; width: 100%;"></div>
<p>6. Does power flow through this facility into the BES?</p> <p><input checked="" type="radio"/> No <input type="radio"/> Yes, under 10% of the calendar year <input type="radio"/> Yes, between 10% - 25% of the calendar year <input type="radio"/> Yes, between 25% - 50% of the calendar year <input type="radio"/> Yes, more than 50% of the calendar year</p> <p>If yes, then using metered or SCADA data for the most recent consecutive two calendar year period, what is the minimum and maximum magnitude of the power flow out of the facility and describe the conditions when this could occur?</p> <div style="border: 1px solid black; height: 40px; width: 100%;"></div>

Figure 36: Transmission Facility Details

NOTE: If the answer to any question is **no**, comments are not required.

## Generation Facility Details

If the Exception Request contains a **Generation Facility Element(s)** (if **Generation** was selected in the **Add Element Description** area of section 1 of the Exception Request), the user will be required to complete the following information:

**Generation Facility Details**

1. What is the MW value of the host Balancing Authority's most severe single Contingency and what is the generator's, or generator facility's, percent of this value?
2. Is the generator or generator facility used to provide Ancillary Services?  
 Yes  No  
 Describe what Ancillary Services the generator or generator facility is supplying:
3. Is the generator designated as a must run unit?  
 Yes  No  
 Please provide the appropriate reference for your operating area:
4. How does an outage of the generator impact the over-all reliability of the BES? Please provide study results that demonstrate the most severe system impact of the outage of the generator and the rationale for your response:
5. Does the generator use the BES to deliver its actual or scheduled output, or a portion of its actual or scheduled output, to Load?  
 Yes  No  
 Description/Comments:

Figure 37: Generation Facility Details

*NOTE: If the answer to any question is **no**, comments are not required.*

## Certifying and Submitting an Exception Request

Before submitting the Exception Request, the request must be **certified by an authorized representative of the Entity**. To accomplish this, the **Name of the authorized representative so certifying (A)** and **Representative's Title/Department (B)** must be entered in **Section 2** of the **Create Exception Request Screen**.

By submitting this Request, the following responsible, authorized representative of the Submitting Entity's senior management certifies that the representative has read the Exception Request on behalf of the Submitting Entity and that the Submitting Entity believes approval of the Exception Request is warranted pursuant to the criteria in Section 3.1 of Appendix 5C of the NERC Rules of Procedure. The representative further certifies that a copy of Sections I. and II. of this Request has been sent to each PC, RC, TOP, TP and BA that has (or will have upon inclusion in the BES) the Elements covered by this Request within its scope of responsibility. If the Submitting Entity is not the Owner, the representative also certifies that the Submitting Entity conferred with the Owner regarding the reason for the requested Exception, but could not reach agreement regarding the submission of the Request.

**Name of authorized representative so certifying\*:**  **Representative Title/Department\*:**

**Provide a brief statement of the basis, consistent with Section 3.1 of Appendix 5C of the NERC Rules of Procedure, on which the Submitting Entity contends the Exception Request should be approved\*:**

Figure 38: Section 2 of the Create Exception Request Screen

The user must also enter a **brief statement of the basis**, consistent with Section 3.1 of Appendix 5C of the NERC Rules of Procedure (C), on which the Submitting Entity contends the Exception Request should be approved (**REQUIRED**).

The user must then select the **Certification** checkbox (A) at the bottom of the **Create Exception Screen** before submitting the Exception Request.

I certify that all entities related to this Exception Request are authorized to access all comments and documents associated with it.

© 2014 - NERC Ver 1.2.14170.1  
Machine Name: BESDVSTGW01

Figure 39: Bottom of the Create Exception Request Screen

To submit the Exception Request, the user should click on the **Submit** button (B). At any time, the user may **Save a Draft** (C) or **Delete the Request** (D) by clicking on the buttons at the lower right of the **Create Exception Request Screen**.

Once the Exception Request has been submitted, the user will be returned to the **BESNet Dashboard**.

The screenshot shows the 'ERO Enterprise BES Notifications and Exceptions Tool' dashboard. At the top, there are navigation links: Home, User, Create Exception Request, Create Self Determination, and Reports. Below this is a section for 'Exception Requests' with a 'Show in Dashboard' filter bar containing checkboxes for Archived, Withdrawn, Split, Certified, SD In NERC Review, Reviewing Regions, and TRP Assigned, followed by an 'Apply' button. A 'Show 10 entries' dropdown is present above a table. The table has the following data:

ID	Status	Stage	Type	Submitted	Submitting Entity	Region	Next Action
2014-MRO-NCR02602-Exception00002	<u>Under Review</u>	<u>Initial Review</u>	Exception Request	06/20/2014 13:43:59 EST	1 Allegheny Power [LSE, TO]	MRO	09/03/2014 - Review Decision
25	<u>Draft - Self Determination</u>	<u>Draft - Self Determination</u>	Self-Determination		1 Allegheny Power [LSE, TO]	MRO	Submit

At the bottom of the table, it says 'Showing 1 to 2 of 2 entries' and includes pagination buttons: First, Previous, 1, Next, Last.

**Figure 40: BESNet Dashboard**

The **ID** for the Exception Request will be complete with year, Region, NCR, and the Exception number. The Status and Stage of the Exception Request will show “Under Review” (B) and “Initial Review” (C), respectively.

## Appendix A – Version History

---

The following is the history of changes to this document.

Version	Date	Change(s) Made	Change Tracking
1-0	May 9, 2014	Initial Release – User Account Management Section only	
1-1	June 19, 2014	Incremental Release – Addition of Submittal of Self-Determined Notifications	
1-2	June 29, 2014	Incremental Release – Addition of Submittal of Exception Requests, separation of document into sections for downloading	