

# Outages

Version 2

eNAMS Reference Guide

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## Key for Chapters 1) & 4):

Brand new to eNAMS

Similar to field in TOGA

Same as field in TOGA

# Using the Outage Search page

# Navigate to Outages

- Click on **Outages** in your toolbar in eNAMS
- If Outages is not visible in the toolbar, click on the **pencil icon** on the right-hand side then click **Add More Items** then find **Outages**.

The screenshot displays the eNAMS application interface. At the top, the navigation bar includes the eNAMS logo, a search bar, and several menu items: PLDs, Basic Data, **Outages** (highlighted with a red box), Reports, HVSCC, Tags, Late News, Bulk Uploads, Bulk Upload CSV, PLD Outage Gantt, and More. A pencil icon on the far right of the navigation bar is also highlighted with a red box. Below the navigation bar, the 'Search Outage' page is visible, featuring filters for 'Date Range From', 'Date Range To', and 'Order By'. An 'Edit eNAMS App Navigation Items' dialog box is overlaid on the page, titled 'Edit eNAMS App Navigation Items'. It contains a list of 'NAVIGATION ITEMS (15)' including PLDs, Basic Data, **Outages**, Reports, HVSCC, and Tags. A red box highlights the 'Add More Items' button in the top right corner of the dialog box. The dialog also includes a 'Reset Navigation to Default' option and 'Cancel' and 'Save' buttons at the bottom.

# Outage Search page (Reference)

Day Ahead | Week Ahead | 2 Week Ahead

Date Range From  
Date: [ ] Time: [ ]

Date Range To  
Date: [ ] Time: [ ]

Outage Number / TO Outage Reference  
[ ]

Owner  
[ Select ]

Substation Codes  
Search Substation... [ ]

Must Include All Substations TO Impact

ERTS From  
[ ]

ERTS To  
[ ]

Only Show OnCom Outages

Only Show Outages Starting OR Ending In The Date Range

Other Asset Owner  
[ Enter Value ]

Tags  
Search Tags... [ ]

Affected Users  
Search Affected Users... [ ]

Service  
[ Select ]

ERTS From Unit  
[ Select ]

ERTS To Unit  
[ Select ]

**Part 1**

Order By  
[ Select ]

Outages Which Have Changed Since Date  
[ ]

Change Type  
[ Select ]

PLD Reference Number  
[ ]

Bulk Uploads  
Search Bulk Uploads... [ ]

Operational Note Status

Available | Selected

- With SO
- TO Feedback Required
- ENCC Feedback Required
- Feedback With SO
- Operational Note Needs Regrou...
- Complete

Reset

**Part 2**

Available | Status Selected

- Initial
- With SO
- Planned
- Unplanned
- Fault
- TBA
- Completed

Available | Outage Type Selected

- Non-NGESO (Of Interest to SO)
- Non-NGESO (Not of Interest to SO)
- Planned
- Unplanned
- Fault

Available | Only Display Selected

- Seasonal Risk
- Cross-boundary Outages
- Generation Risk
- Demand at Risk
- Affects Sensitive Sites

**Part 3**

**Part 4** | Search Outages | Search Operational Notes | Bulk Approve/Reject | Operational Notes Report | Availability Report

# Part 1 of 4 – Outage Search page fields

Search selected plan week (Sat – Fri).

Day Ahead    Week Ahead    2 Week Ahead

Search by Date range (Time auto-populated as 00:00 and 23:59 respectively unless specified)

Date Range From      Date Range To

Date      Time      Date      Time

Search by eNAMS Outage Number or TOGA number (TO Outage Reference)

Outage Number / TO Outage Reference

Other Asset Owner comprises non-onshore TO's & other parties. Example being OFTO's.

Search by Owner of (Basic) Outage if listed, otherwise use Other Asset Owner field

Owner

Select

Only Show Outages Starting OR Ending In The Date Range

Other Asset Owner

Enter Value

Search all Tags. Use Tags PLSTH/PLNTH/PLSCOT to search by planning region.

Substation Codes

Search Substation...

Tags

Search Tags...

Click on tick box to return Outages which include all listed substations

Must Include All Substations

TO Impact

Select

Search by External Parties. Example being RWE.

Affected Users

Search Affected Users...

Search by TO Priority (P1 = Highest Priority)

ERTS From

Select In Service or Out Of Service

Service

Select

Search by ERTS Range. Enter same ERTS From and ERTS To to search a single ERTS value. eNAMS includes ERTS conversion logic i.e. 2 DAYS = 48 HOURS.

ERTS To

ERTS From Unit

Select

Only Show OnCom Outages

ERTS To Unit

Select

# Part 2 of 4 – Outage Search page fields

Order the search results in Chronological order based on Last Updated date or order in numerical order based on Outage Number. Order By Planned Start Date is an option however is applied by default.

Change Requests are assigned with a Change Type depending on the type of change. This can be either Add (for brand new outage), Update (for changing an existing outage), TBA (when an Outage is TBA'd) or Cancel (when an Outage is cancelled).

Each Bulk Upload is assigned a reference number that starts with BU. Search here by this reference number.

The screenshot shows the search interface with the following fields and annotations:

- Order By:** A dropdown menu with "Select" and "Outages Which Have Changed Since Date" visible. An arrow points from the text box above to this field.
- Change Type:** A dropdown menu with "Select" and "PLD Reference Number" visible. An arrow points from the text box above to this field.
- Bulk Uploads:** A search input field with "Search Bulk Uploads..." and a magnifying glass icon. An arrow points from the text box above to this field.
- Operational Note Status:** A multi-selectable list with "Available" and "Selected" columns. The "Available" column contains: "With SO", "TO Feedback Required", "ENCC Feedback Requ...", "Feedback With SO", "Operational Note Ne...", and "Complete". An arrow points from the text box above to this section.
- Reset:** A blue button with the text "Reset". An arrow points from the text box above to this button.

Reset all Outage Search page fields

Search by Outage Last Updated Date

Search by PLD Project Number

Multi-selectable field to view by Op Note status for when viewing Op Notes.

# Part 3 of 4 – Outage Search page fields

Search by Outage status. For outage planning, the user will typically select:

- With SO
- Planned
- Unplanned
  - Fault
  - Started

Search by:

- Seasonal Risk – if ticked in Outage
- Cross-boundary Outages – if Basic Outage is of cross-boundary type
  - Generation Risk – if ticked in Outage
  - Demand at Risk – if ticked in Outage
- Affects Sensitive Site – if ticked in Outage

The diagram illustrates the layout of the Outage Search page fields. It consists of three main filter sections, each with an 'Available' list on the left and a 'Selected' box on the right. Arrows indicate the flow of items from the available list to the selected box.

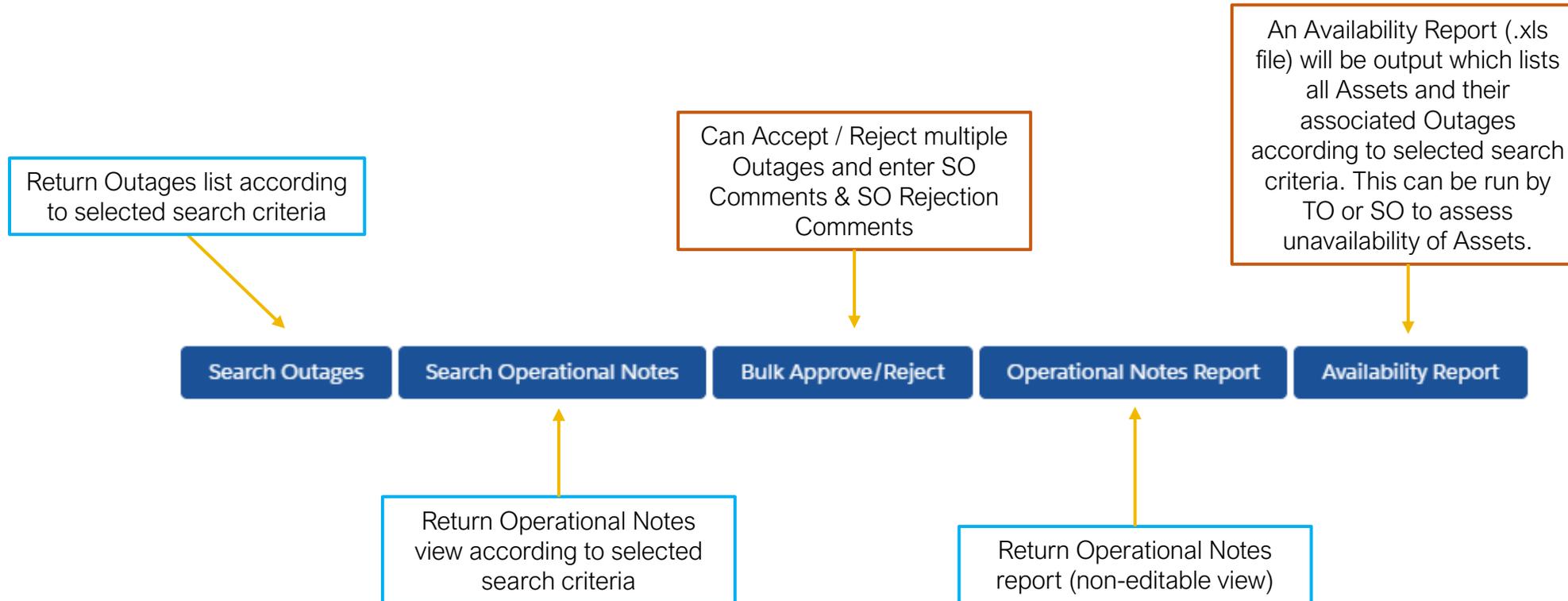
- Status:** The 'Available' list contains: Initial, With SO, Planned, Unplanned, Fault, TBA, and Started. The 'Selected' box is currently empty.
- Outage Type:** The 'Available' list contains: Non-NGESO (Of Interest to SO) and Non-NGESO (Not of Interest to SO). The 'Selected' box contains: Planned, Unplanned, and Fault.
- Only Display:** The 'Available' list contains: Seasonal Risk, Cross-boundary Outages, Generation Risk, Demand at Risk, and Affects Sensitive Sites. The 'Selected' box is currently empty.

Search by Outage Type field.

To view DNO created outages for assessment, select Non-NGESO (Of Interest to SO). Currently, only SPD are expecting to use this Outage Type.

Please note, if user is searching for Fault in Status field, then Fault must be selected in Outage Type; same also for Unplanned Outages. All other Status are covered under Planned Outage Type.

# Part 4 of 4 – Outage Search page fields



# Typical Outage Search page selections

View Two Week Ahead Notes for Scotland  
(see *Operational Notes Guide – eNAMS* for further information)

The screenshot shows the Outage Search interface with several filters and selections highlighted in red:

- Time Range:** "2 Week Ahead" is selected in the top navigation bar.
- Date Range From:** "19-Jun-2021 00:00".
- Date Range To:** "25-Jun-2021 23:59".
- Tags:** "PLSCOT X" is selected in the "Tags" filter.
- Status:** "With SO", "Planned", "Unplanned", "Fault", and "Started" are selected in the "Status" filter.
- Outage Type:** "Planned", "Unplanned", "Fault", and "Non-NGESO (Of Interest to SO)" are selected in the "Outage Type" filter.
- Operational Note Status:** "With SO", "TO Feedback Required", "ENCC Feedback Required", "Feedback With SO", "Operational Note Needs Regrouping", and "Complete" are selected in the "Operational Note Status" filter.
- Buttons:** "Search Outages" and "Search Operational Notes" are highlighted in red.

To view information on the appropriate Tag to select to query a region, click here in Slide Show view:



# Typical Outage Search page selections

View Week Ahead South Outages which have changed since a specific date

The screenshot shows the Outage Search interface with several key elements highlighted in red:

- Navigation:** "Week Ahead" button.
- Date Range From:** Date: 12-Jun-2021, Time: 00:00.
- Date Range To:** Date: 18-Jun-2021, Time: 23:59.
- Search Tags:** A search box containing "PLSTH X".
- Order By:** A dropdown menu set to "Outages Which Have Changed Since Date".
- Operational Note Status:** A list of statuses with "With SO" selected.
- Outage Type:** A list of types with "Planned" selected.
- Buttons:** "Search Outages" button.

To view information on the appropriate Tag to select to query a region, click here in Slide Show view:



# Creating an Outage

Both the SO and TO have permissions to create an Outage.  
The TO can only create an Outage up to With SO status

# Find Basic Outage

- Navigate to **Basic Data** tab, then select **Basic Outages**. Enter your search criteria (i.e. enter Substation Code), then click **Search Basic Outages**
- Click and open the relevant **Basic Outage**

The screenshot shows the 'Search Basic Outages' interface in the eNAMS system. The top navigation bar includes 'eNAMS' and various menu items, with 'Basic Data' highlighted. Below this, the 'BASIC OUTAGES' sub-tab is selected. The main content area is titled 'Search Basic Outages' and contains a search form with the following fields and options:

- Basic Outage Code (text input)
- Owner (dropdown menu)
- Data Range From (text input)
- Circuit Description (text input)
- Substation Codes (text input with a dropdown menu showing 'INDIAN QUEENS 400KV X')
- Status (dropdown menu)
- Other Asset Owner (text input)
- Data Range To (text input)
- Asset Codes (text input)
- Affected Users (text input)
- Tags (text input)
- Group (text input)

Additional options include 'Must Include All Substations' (checkbox), 'Must Include All Assets' (checkbox), 'Only show Outages starting OR ending within the date range' (checkbox), and 'Risk Outages Only' (checkbox). A 'Search Basic Outages' button is located at the bottom right of the form.

# Propose Outage

- Once you've selected the **Basic Outage**, click on the **Related** tab
- Scroll down to the **Outages** section
- Click to propose either a **Planned Outage** / **Unplanned Outage** or **Fault Outage**.
- (Note: TO accounts have a slightly different page layout than the SO)

The screenshot shows the eNAMs interface for a Basic Outage (ON-0000384). The page is divided into several sections:

- Header:** eNAMs logo, navigation menu (PLDs, Basic Data, Outages, Reports, Tags, HVSCC, Late News, Bulk Uploads, Bulk Upload CSV, PLD Outage Gantt, OCLRs, ROB / NOB, Affected Users, Fall to Flts, Contacts, Multi-BADRs, Outages), and search bar.
- Outage Details:** Outage Type Description: Basic Outage, Status: Approved, Basic Outage Code: INDQX31. Buttons: + Follow, Submit Basic Outage Request, Clone Basic Outage, Printable View.
- Progress Bar:** A green bar with a blue segment labeled 'Approved', followed by 'Withdrawn' and 'Archived'.
- Details Tab:** A red box highlights the 'Related' tab.
- Substations (1):** Table with columns: Name, Substation Code, Status, Commissioning Date, Decommissioning Date, Transmission Owner. Row: INDIAN QUEENS 400KV, INDQ4, Approved, 2017-03-31, NGET.
- Assets (1):** Table with columns: Asset Name, Asset Description, Status, Commissioning Date, Decommissioning Date, Transmission Owner. Row: INDQ4.SGT.INDQ.SGT3, Indian Queen SGT3, Existing, 2021-03-10, NGET.
- Outages (6+):** Table with columns: Outage Number, Status, Outage Type Description, Change Type, Planned Start Date/Time, Planned End Date/Time, Transmission Owner. Rows include ON-0000774, ON-0000790, ON-0000902, ON-0007237, ON-0007257, and ON-0007260. A red box highlights three buttons: 'Propose New Planned Outage', 'Propose New Unplanned Outage', and 'Propose New Fault Outage'.
- Chatter:** A section for collaboration with a search bar and a placeholder image of a landscape with mountains and trees. Text: 'Collaborate here! Here's where you start talking with your colleagues about this record.'

# Populate Outage fields

- Populate fields as required.
- Fields with a red asterisk (\*) indicate mandatory fields
- When complete, press **Save** to create Outage (prior to Save, ensure **Status** is in **Initial** status).

**New Outage: Propose Planned Outage**

**Ownership Detail**

Owner: \_\_\_\_\_ Other Asset Owner: \_\_\_\_\_

**Outage Request Description**

Circuit Description ⓘ: INDIAN QUEENS 400/132KV SGT3 Additional Description ⓘ: \_\_\_\_\_

Status ⓘ: Initial Basic Outage: ON-0000384

\* Outage Type ⓘ: Planned Change Type ⓘ: Add

**Outage Dates**

\* Planned Start Date/Time ⓘ: Date: 17/06/2021 Time: 12:00

\* Planned End Date/Time ⓘ: Date: 24/06/2021 Time: 12:00

Actual Start Date/Time: Date: \_\_\_\_\_ Time: \_\_\_\_\_

Actual End Date/Time: Date: \_\_\_\_\_ Time: \_\_\_\_\_

Planned Equipment Release Date/Time ⓘ: Date: \_\_\_\_\_ Time: \_\_\_\_\_

Permit For Work Date/Time ⓘ: Date: \_\_\_\_\_ Time: \_\_\_\_\_

Authorised Person Attendance Date/Time ⓘ: Date: \_\_\_\_\_ Time: \_\_\_\_\_

\* Change Code ⓘ: OH - SO CUSTOMERS REQUESTED (DNO,DCC)

\* Change Description ⓘ: OUTAGE REQUESTED BY CUSTOMER FOR PROXIMITY AND FOR FAULT REPAI

**Work Involved**

\* Work Involved ⓘ: For proximity to DNO equipment and to undertake phasing checks

Outage Characteristics: \_\_\_\_\_

Cancel Save & New **Save**

# Submit Outage to With SO

- Check the Outage details and make any modifications /additions if necessary
- When ready, click **Submit Outage** at the top\*
- You should see a green popup appear
- The Outage will automatically change to **With SO** status

The screenshot displays the eNAMS Outage management interface for Outage ON-0011736. The interface includes a navigation menu at the top, a search bar, and a status bar with buttons for '+ Follow', 'Submit Outage' (highlighted in red), 'Change Basic Outage', and 'Clone Outage'. Below the status bar is a progress indicator showing the current status as 'Initial' and other stages like 'With SO', 'Rejected', 'TBA', 'Planned', 'Started', 'Complete', 'Not Taken', 'Cancelled', 'Withdrawn', and 'Archived'. The main content area is divided into 'Details' and 'Chatter' sections. The 'Details' section includes fields for Ownership Detail (Owner: NGET), Outage Request Description (Circuit Description: INDIAN QUEENS 400/132KV SGT3), Status (Initial), Company Code (SO), and Outage Dates (Planned Start Date/Time: 17/06/2021 12:00, Planned End Date/Time: 24/06/2021 12:00). The 'Chatter' section shows a feed with a message from Nathanael Sims SO and a search bar. A green popup message 'Record submitted for approval' is overlaid on the bottom right of the screen, with a 'Cancel' button.

\*Please note the Submit Outage button is used only for changing from Initial to With SO; eNAMS will not allow the user to simply change the status from Initial to With SO directly in the Status field. If attempted, when the user presses “Save”, it will throw an error.

# Changing an Outage's Basic Outage

- If an Outage description is incorrect and therefore was formed from the wrong Basic Outage, you can change this by clicking **Change Basic Outage** at the top of the Outage page.
- For TO users, a Change Request (Initial) has to be raised before the button will appear to enable changing the Basic Outage.
- Select an alternative Basic Outage (note: the new Basic Outage has to be part of the same Basic Group)
- Click **Save**
- A green popup should appear

The screenshot displays the eNAMS Outage management interface. At the top, the 'Change Basic Outage' button is highlighted with a red box. Below this, a table shows outage details for 'Planned Outage' with a status of 'Planned'. A progress bar indicates the current stage is 'Planned'. The 'Details' section shows 'Ownership Detail' with 'Owner: NGET' and 'Outage Request Description'. A modal window titled 'Change Basic Outage' is open, showing a dropdown menu for 'Basic Outage' with options: 'Please select', 'INDQ4MC3', 'INDQ4M4', 'INDQ41', 'INDQ42', and 'INDQ4M1'. The 'Save' button in the modal is also highlighted with a red box. A green success message popup at the bottom reads 'Success! Basic Outage Updated.'

# Cloning an Outage

- To Clone an existing Outage, click on **Clone Outage** at the top of the Outage page
- Populate fields as necessary
- Ensure **Change Code** and **Change Description** mandatory fields are populated
- Click **Clone**
- A green popup should appear
- (Note: this functionality is available to TO and SO users – TO users are forced to submit the change via a With SO Change Request)

The screenshot displays the eNAMs interface for an outage record. The top navigation bar includes 'eNAMs' and various menu items. The main header shows the outage ID 'ON-0011736' and a 'Clone Outage' button highlighted with a red box. Below the header is a progress bar with stages: Planned, Started, Complete, Not Taken, Cancelled, Withdrawn, and Archived. The 'Planned' stage is currently active. A modal form is open, allowing the user to clone the outage. The form includes fields for 'Actual Start Date/Time', 'Planned Equipment Release Date/Time', 'Authorised Person Attendance Date/Time', 'Actual End Date/Time', 'Permit For Work Date/Time', 'Change Code' (set to '--None--'), and 'Change Description'. A 'Work Involved' text area contains the text 'For proximity to DNO equipment and to undertake phasing checks'. A green success message at the bottom of the modal reads 'Success! Outage Record Created Successfully!'.

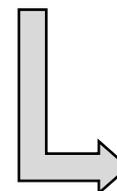
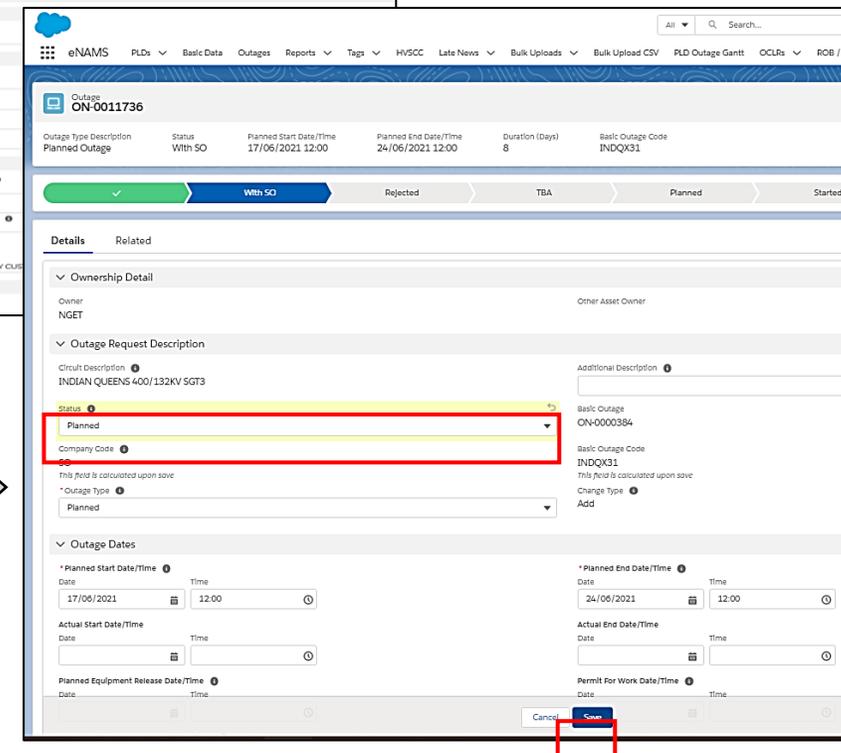
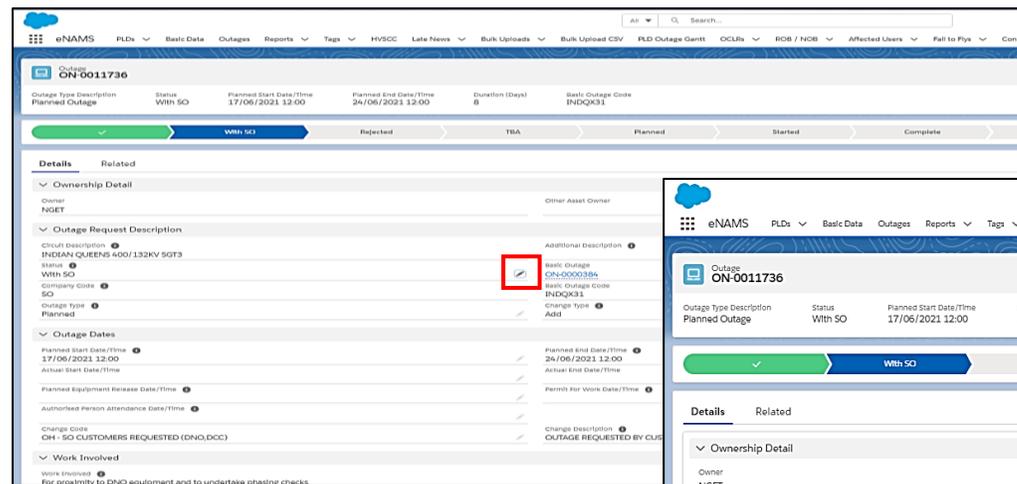
# Approving / Rejecting Outages

Only one Change Request at Initial or With SO status can exist for an Outage at any one point in time.

Approving / Rejecting an Outage or Change Request are known as “end states”; this means the TO is then able to make a change to an Outage / submit a new Change Request.

# Approve a single Outage / Change Request

- To accept an Outage / Change Request\*, firstly click on any pencil icon in the Outage / Change Request, or click **Edit** in the top right-hand corner of the page.
- This will make some fields editable
- To approve, click on the dropdown against the **Status** field
- Select **Planned** for a new outage or select **Approved** for a Change Request
- Then click **Save** to accept
- The chevrons will update to indicate **Planned** status if a new Outage / **Approved** if a Change Request



\*To view the details of a Change Request (i.e. what is changing), click on the **Difference With Original Outage** button on the Change Request page before proceeding with approval.

Difference With Original Outage

# Reject a single Outage / Change Request

- To reject an Outage / Change Request\*, firstly click on any pencil icon in the Outage / Change Request, or click **Edit** in the top right-hand corner of the page
- This will make some fields editable
- To reject, click on the dropdown against the **Status** field
- Select **Rejected**
- You must populate ESO Rejection Comments field
- Then click **Save** to reject the Outage / Change Request.
- The chevrons will update to indicate **Rejected** status

The screenshot shows the 'Outage' details page for ON0011739. The status is 'With SO'. The 'Status' dropdown is highlighted in red and set to 'Rejected'. The 'ESO Rejection Comments' field is highlighted in yellow and contains the text 'Rejected due to >300MW at SC risk'. The 'Save' button is visible at the bottom right of the form.

The screenshot shows the status chevron bar with the 'Rejected' status highlighted in red. The other statuses are: With SO, TBA, Planned, Started, Complete, Not Taken, Cancelled, Withdrawn, and Archived.

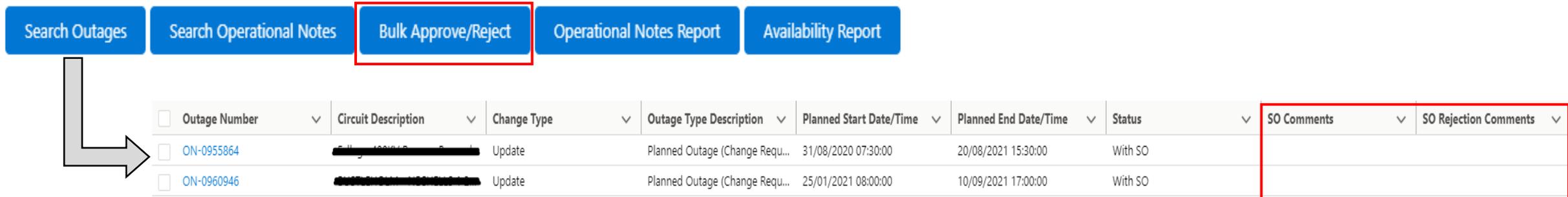
\*To view the details of a Change Request (i.e. what is changing), click on the **Difference With Original Outage** button on the Change Request page before proceeding with rejection.

[Difference With Original Outage](#)

- Please note:
- 1) eNAMS validation does not currently prevent the user selecting Not Taken, TBA or Cancelled for a new Outage (Change Type: Add and Status: Initial / With SO); therefore the user should be careful not to inadvertently select these status' due to lack of prevention logic.
  - 2) SO user must remember to delete old SO Rejection Comments that may already exist from a previous rejection that may have occurred prior to the outage first being Planned and write new ones in applicable to the first change request being rejected.

# Bulk Approve / Reject Outages

- The Bulk Approve/Reject page in eNAMS allows you to do the following in bulk:
  - **Approve** multiple Outages
  - Populate multiple **ESO Comments – Internal**
  - Populate multiple **Rejection Comments**
  - **Reject** multiple Outages
- **Currently the bulk functionality does not work for Change Requests, only for new Outages (i.e. with Change Type = Add). This is a known defect.**
- To navigate to the Bulk Approve/Reject page, first go to the **Search Outage** page
- Define your search criteria then click on **Bulk Approve/Reject** button
- You will see the list of Outage appear with any existing **SO Comments** or **SO Rejections Comments** listed in the last two columns (highlighted below)
- When Outages are Approved / Rejected or Comments fields populated in the bulk view, the relevant fields will be updated in the outage list.



Search Outages   Search Operational Notes   **Bulk Approve/Reject**   Operational Notes Report   Availability Report

<input type="checkbox"/> Outage Number	Circuit Description	Change Type	Outage Type Description	Planned Start Date/Time	Planned End Date/Time	Status	SO Comments	SO Rejection Comments
<input type="checkbox"/> ON-0955864	██	Update	Planned Outage (Change Requ...	31/08/2020 07:30:00	20/08/2021 15:30:00	With SO		
<input type="checkbox"/> ON-0960946	██	Update	Planned Outage (Change Requ...	25/01/2021 08:00:00	10/09/2021 17:00:00	With SO		

# Locating Change Request of an Outage

- There are multiple methods of finding out if an Outage has an open (i.e. With SO) Change Request
- One such method is to search for the Outage / Outages on the Outage Search page in the normal way (ensure With SO is selected in the Status field on the Outage Search page).
- The Change Request is identified in the Outage Type Description column with “(Change Request)”.

Status Selected

With SO

Planned

Search Outages

Outage Number	TO Outage Refere...	Status	Outage Type Desc...	Circuit Description	Additional Descri...	Change Type	Planned Start Dat...	Planned End Date...	Owner
ON-0000787		Planned	Planned Outage	INDIAN QUEENS 400KV MESH CORNER 4 / SGT4 / MSC4 AND LAN-DULPH 1 CIRCUIT		Add	17/09/2026 07:45:00	19/09/2030 16:00:00	NGET
ON-0000787		With SO	Planned Outage (Change Request)	INDIAN QUEENS 400KV MESH CORNER 4 / SGT4 / MSC4 AND LAN-DULPH 1 CIRCUIT		Update	18/09/2026 07:45:00	19/09/2030 16:00:00	NGET

- Another method is by navigating to a specific Outage, followed by the Related tab, then view the Outage Change Requests field

Outage ON-0000787

Outage Type Description: Planned Outage

Status: Planned

Details **Related**

**Outage Change Requests (2)**

Outage Name	Status	Change Type	Change Description	CreatedDate	Created By
ON-0000787	With SO	Update	tt	08/06/2021	Nathanael Sims NGET OP
ON-0000787	Approved	Add	Test	04/09/2020	Jonathan Barcroft

[View All](#)

# Understanding Outage Fields

# Outage – Details tab (Reference Page)

- Part 1
  - Ownership Detail
  - Outage Request Description
  - Outage Dates
  - Work Involved
  
- Part 2
  - Outage Characteristics
  - Work Type
  - TO Work Description
  - ESO Outage Comments
  
- Part 3
  - Sanction
  - Risk Characteristics
  
- Part 4
  - Demand at Risk Details
  - Generation Risk Details – Internal
  - Seasonal Risk Details – Internal
  
- Part 5
  - Operational Notes
  - System Information

<b>Part 1</b>	
<b>Part 2</b>	
<b>Part 3</b>	
<b>Part 4</b>	
<b>Part 5</b>	

# Outage – Related tab (Reference Page)

- **Part 6**
  - Demand Risk Asset
  - Outage Change Requests
  - ERTS Profile
  - Affected User
  - Tags
- **Part 7**
  - Linked Outages
  - LIFT Details
  - HVSCCs
  - Late News
  - Fail to Flys
- **Part 8**
  - OCLRs
  - Files
  - Outages History

**Part 6**

**Demand Risk Asset (0)** Add Assets

**Outage Change Requests (1)**

Outage Name	Status	Change Type	Change Description	CreatedDate	Created By
ON-0011736	Approved	Add	OUTAGE REQUESTED BY CUSTOMER FOR PROXIMITY AND FOR FAULT REPAIR WORKS	06/06/2021	Nathanael Sims SO

[View All](#)

**ERTS Profile (0)**

**Affected User (0)**

**Tags (4)** Add Tags

Tag Name	Description	Tag Type	Inactive
AM	Asset Management E/W	External Party	<input type="checkbox"/>
STHW	South West	External Party	<input type="checkbox"/>
SWIE	South West	External Party	<input type="checkbox"/>
TSW	Sub-South West	External Party	<input type="checkbox"/>

[View All](#)

**Part 7**

**Linked Outages (0)** Link Child Outage Link Parent Outage

**LIFT Details (2)** New

LIFT Detail Name	Record Type	Date Added	Date Removed
LIFT-00001396	ROB	2021-06-06 11:11:19Z	2021-06-06 11:28:07Z
LIFT-00001396	ROB	2021-06-06 11:28:07Z	2021-06-06 11:28:07Z

[View All](#)

**HVSCCs (0)**

**Late News (0)**

**Fail to Flys (0)** New

**Part 8**

**OCLRs (0)**

**Files (0)** Add Files

[Upload Files](#)

Or drop files

**Outage History (6+)**

Date	Field	User	Original Value	New Value
06/06/2021 12:11	Circuit Description	Nathanael Sims SO	INDQMC3	INDIAN QUEENS 400KV MESH CORNER 4 / SGT4...
06/06/2021 12:09	Circuit Description	Nathanael Sims SO	INDIAN QUEENS 400/132KV SGT3	INDQMC3
06/06/2021 11:28	Status	Nathanael Sims SO	With SO	Planned
06/06/2021 11:13	Status	Nathanael Sims SO	Initial	With SO
06/06/2021 11:11	Status	Nathanael Sims SO	With SO	Initial
06/06/2021 11:11	Status	Nathanael Sims SO	Initial	With SO

[View All](#)

# Part 1a of 8 – Outage page fields

Automatically populated from Basic Outage

Current Outage status. See **Outage Status** slide for Descriptions.

A two-letter prefix for specific company derived from Basic Outage owner.

Planned / Unplanned / Fault

Outage Start / End Dates & Times

Actual Start / End Dates & Times (automatically marks Outage as Started when populated)

Details		Related
<b>Ownership Detail</b>		
Owner	Other Asset Owner	
NGET		
<b>Outage Request Description</b>		
Circuit Description	Additional Description	
INDIAN QUEENS 400KV MESH CORNER 4 / SGT4 / MSC4 AND LANDULPH 1 CIRCUIT		
Status	Basic Outage	
Planned	<a href="#">ON-0000331</a>	
Company Code	Basic Outage Code	
SO	INDQ4M4	
Outage Type	Change Type	
Planned	Add	
<b>Outage Dates</b>		
Planned Start Date/Time	Planned End Date/Time	
17/06/2021 12:00	24/06/2021 12:00	
Actual Start Date/Time	Actual End Date/Time	
Planned Equipment Release Date/Time	Permit For Work Date/Time	
Authorised Person Attendance Date/Time		
Change Code	Change Description	
OH - SO CUSTOMERS REQUESTED (DNO,DCC)	OUTAGE REQUESTED BY CUSTOMER FOR PROXIMITY AND FOR FAULT REPAIR WORKS	
<b>Work Involved</b>		
Work Involved		
For proximity to DNO equipment and to undertake phasing checks		

Link to Basic Outage

Inherited from most recent closed Change Request

# Part 1b of 8 – Outage Status

- **Initial** – pre-submission status.
- **With SO** – when an Outage (New or Change Request) has been submitted to the ESO.
- **Rejected** – when an Outage has been rejected by the ESO.
- **TBA** – when an Outage has been accepted into TBA (TBA = To be arranged). Booking can be reused.
- **Planned** – when a Planned outage has been accepted into the plan by the ESO.
- **Unplanned** – when an Unplanned outage has been accepted by the ESO. Unplanned outages are those switched out through manual intervention but have not followed the planning process.
- **Fault** – when a Fault outage has been accepted by the ESO. Fault outages are those switched out through automatic protective action.
- **Started** – when an Outage has begun (Actual Start Date & Time is populated).
- **Complete** – when an Outage has finished (Actual End Date & Time is populated).
- **Not Taken** – when an Outage didn't go ahead (can currently only be marked by the ESO). Booking can be reused. Please note there is a future change planned to allow TOs to mark an Outage as Not Taken.
- **Cancelled** – when the work associated with an Outage is no longer required (booking cannot be reused).
- **Withdrawn** – when an Outage booking isn't required (booking cannot be reused). Can be marked by ESO only.
- **Archived** – after a certain length of time, an Outage in Completed status is Archived (to save space on Salesforce server).

# Part 1c of 8 – Outage Status

Statuses		
Planned Outage	Unplanned Outage	Fault Outage
Initial	Initial	Initial
With SO	With SO	With SO
Rejected	Rejected	Rejected
<b>Planned</b>	<b>Unplanned</b>	<b>Fault</b>
TBA	TBA	TBA
Started	Started	Complete
Complete	Complete	Cancelled
Not Taken	Not Taken	Archived
Cancelled	Cancelled	
Withdrawn	Archived	
Archived		

# Part 2 of 8 – Outage page fields

Outage Characteristics	
Emergency Return To Service: Day 6	Emergency Return To Service: Day Units Hours
Emergency Return To Service: Night 8	Emergency Return To Service: Night Units Hours
Working Time Continuous	OnCom <input type="checkbox"/>
TO Impact P4	In Service <input type="checkbox"/>
Commissioning/Decommissioning Outage? <input type="checkbox"/>	Review ERTS Profiles <input type="checkbox"/>
Work Type	
Work Type Description EPR - External Party Request; PRS - Post Fault Repairs - Switchgear	
TO Work Description	
TO Outage Reference	TO Project
TO Reference	TO Comments
TO Scada	PLD
ESO Outage Comments	
ESO Comments - Internal	Operational Remarks
ESO Rejection Comments	
ESO Comments (NGET)	NGET Comments
ESO Comments (SPT)	SP Comments
ESO Comments (SHETL)	SHETL Comments

ERTS – separate fields for digits and unit of time

Select if Com / Decom is associated with this outage (purpose is to aid visibility of upcoming CSP's). Can be selected by TO or SO.

TO can enter reference number (i.e. legacy TOGA number). This number can be searched on the Outage Search page\*

Additional TO reference (not searchable except via Reports)

SCADA reference if available

SO only comments

To be populated if Outage Rejected

SO comments visible to NGET

SO comments visible to SPT

SO comments visible to SSEN-T

Tick if Outage has no ERTS (i.e. return On Completion)

Should be ticked by the TO to indicate if ERTS Profile has been submitted (ERTS Profile is visible in Related tab of Outage – see slide Part 6 of 8). However, there is an outstanding defect in that this field is not visible to TO. Therefore cannot be used as intended.

TO Project reference (i.e. PI no.)

TO comments, visible to SO

PLD name, if linked

Any operational comments, such as switching restrictions, OESB etc.

Only available for cross-boundary outages. Visible to the specific TO and the ESO

\*note: the legacy TOGA number is migrated to this field for all migrated outages.

# Part 3 of 8 – Outage page fields

Tick if commercial sanction is required (i.e. if TO Justification paper required)

NAP Paper initiated by (mark as SO or TO)

Tick if Demand At Risk (Demand Risk Asset field will then become visible on Related tab). See [Demand At Risk](#) chapter.

Tick if Generation is at increased risk (no longer necessary for RoCoF / VS following SQSS mod GSR027). See [Generation Risk](#) chapter.

Tick if Winter ERTS review required. See [Seasonal Risk](#) chapter.

▼ Sanction	
Sanctioning Review Needed <input type="checkbox"/>	Sanction Review Initiation Date
Sanction Review Initiated By	Sanction Review Completion Date
▼ Risk Characteristics	
Demand at Risk Needed <input checked="" type="checkbox"/>	Demand Risk Complete <input type="checkbox"/>
Generator Risk Needed <input type="checkbox"/>	Generation Risk Complete <input type="checkbox"/>
Seasonal Risk Needed <b>0</b> <input type="checkbox"/>	Seasonal Risk Complete <input type="checkbox"/>
Manual Override Seasonal Risk <b>0</b>	

Date sanction requirement initiated and date outage sanctioned

These fields are automatically populated when the respective assessments have been completed (i.e. Approval / Review Status' are set to Approved / Reviewed).

# Part 4 of 8 – Outage page fields

Demand at Risk fields.  
See [Demand At Risk](#)  
chapter for details of  
process

Seasonal Risk (i.e. Winter  
ERTS Risk) fields.  
See [Seasonal Risk](#)  
chapter for details of  
process

▼ Demand at Risk Details	
Restoration	Mitigation
Demand Risk Approval Status	Demand at Risk Details
Affects Sensitive Site <input type="checkbox"/>	
▼ Generation Risk Details - Internal	
Generation Risk Review Status 0	Generation at Risk Details
▼ Seasonal Risk Details - Internal	
Dependency 0 <input checked="" type="checkbox"/>	Reserve/Response 0 <input checked="" type="checkbox"/>
Restriction 0 <input checked="" type="checkbox"/>	Risk 0 <input checked="" type="checkbox"/>
Seasonal Risk Review Status 0 Reviewed	

Generation Risk fields.  
See [Generation Risk](#)  
chapter for details of  
process

# Part 5 of 8 – Outage page fields

Click link to view Starting Operational Note

▼ Operational Notes	
Start Date Operational Note <a href="#">OP-00004001</a>	End Date Operational Note <a href="#">OP-00004002</a>

Click link to view Ending Operational Note

This section is automatically populated

▼ System Information	
Created By <a href="#">Nathanael Sims SQ, 06/06/2021 11:11</a>	Changed By <a href="#">nathanael.sims@nationalgrideso.so</a>
Outage Number ON-0011736	Last Modified Date 06/06/2021 16:43

# Part 6 of 8 – Outage page fields

This field is made visible when Demand at Risk Needed field is ticked in Details tab. See [Demand At Risk](#) chapter for process details.

 Demand Risk Asset (0) [Add Assets](#)

All closed and open Change Requests (CR) are listed here. Click Outage Name against each CR to view the details. See [Interpreting Outage History](#) section for details on viewing in conjunction with Outage History field.

 Outage Change Requests (1)

Outage Name	Status	Change Type	Change Description	CreatedDate	Created By
<a href="#">ON-0011736</a>	Approved	Add	OUTAGE REQUESTED BY CUSTOMER FOR PROXIMITY AND FOR FAULT REPAIR WORKS	06/06/2021	Nathanael Sims SO

[View All](#)

Click to view if a granular view of ERTS of an Outage has been created by the TO. ERTS Profile entries can be generated by TO when the Outage is in Initial status. There is currently little validation for this field, there are defects on the backlog to enhance this feature.

 ERTS Profile (0)

Lists all Tags inherited from the Basic Outage, in addition to any Tags assigned for the individual Outage. Tags fall into categories of External Party / Scheme / Free Codes / ESO Party.

 Affected User (0)

 Tags (4) [Add Tags](#)

Tag Name	Description	Tag Type	Inactive
AM	Asset Management E/W	External Party	<input type="checkbox"/>
STHW	South West	External Party	<input type="checkbox"/>
SWE	South West	External Party	<input type="checkbox"/>
TSW	Subs-South West	External Party	<input type="checkbox"/>

[View All](#)

Inherited from Basic Outage. This field lists all the organisations (Accounts) who can see the Outage in their reports.

# Part 7 of 8 – Outage page fields

May link a Parent or Child Outage to current Outage. A Parent Outage will see the current outage as a Child Outage, and vice versa. This functionality is similar to TOGA and is useful to see easily when there are multiple shorter outages planned in coordination with a longer umbrella outage.

Linked Outages (0) Link Child Outage Link Parent Outage

LIFT Details (2) New

LIFT Detail Name	Record Type	Date Added	Date Removed	
<a href="#">LIFT-00001395</a>	ROB	2021-06-06 11:11:19Z	2021-06-06 11:28:07Z	▼
<a href="#">LIFT-00001396</a>	ROB	2021-06-06 11:13:00Z	2021-06-06 11:28:07Z	▼

[View All](#)

An item is automatically created on the ROB (Regional Outage Board). The user may manually create an item on the NOB (National Outage Board) if National assessment required.

When an Outage is linked to an HVSCC Record, the HVSCC Record details will appear here.

HVSCCs (0)

Late News (0)

A Late News record is automatically generated if there is a new Outage / Outage Change that affects the following day. See *Late News Guide – eNAMS.pptx* for further details.

A F2F record can be generated here (or by navigating to Fail To Flys in the eNAMS toolbar). Visible to ESO only.

Fail to Flys (0) New

# Part 8 of 8 – Outage page fields

When an Outage is linked to an OCLR in eNAMS, the OCLR details will appear here.

The screenshot displays the 'Outage' page interface. It is divided into three main sections:

- OCLR (0)**: A section for Outage Control List Records, currently showing 0 records.
- Files (0)**: A file upload area with an 'Add Files' button and an 'Upload Files' button. Below the upload button is the text 'Or drop files'.
- Outage History (6+)**: A table showing the history of changes to the outage fields.

Date	Field	User	Original Value	New Value
06/06/2021 12:11	Circuit Description	Nathanael Sims SO	INDQMC3	INDIAN QUEENS 400KV MESH CORNER 4 / SGT4...
06/06/2021 12:09	Circuit Description	Nathanael Sims SO	INDIAN QUEENS 400/132KV SGT3	INDQMC3
06/06/2021 11:28	Status	Nathanael Sims SO	With SO	Planned
06/06/2021 11:13	Status	Nathanael Sims SO	Initial	With SO
06/06/2021 11:11	Status	Nathanael Sims SO	With SO	Initial
06/06/2021 11:11	Status	Nathanael Sims SO	Initial	With SO

At the bottom of the table, there is a 'View All' link.

Each change to a pre-defined 20 tracked Outage fields will be shown here in a new row

The user may upload any type of file. The file is visible to all Affected Users who have visibility of the Outage (TO, SO, DNO's, DCC's).

# Demand At Risk

# Asset Level (1/2) – Defining Demand at Risk

- Demand at Risk can be defined at the Asset level i.e. if an outage on an Asset is always going to cause demand to be at risk to a fault, this can be marked within the Asset.
- There are three fields available to populate:
  - Demand at Risk (tick to say yes)
  - Demand at Risk Details
  - Sensitive Site (i.e. if impacted site is listed within Work Instruction NAP-020)

Asset (Plant and Apparatus)  
**AXMI4.SGT.SGT2**

▼ ESO Details

ESO Comments ⓘ

NASAP Required ⓘ

NASAP Code ⓘ  
S828

NASAP Description ⓘ

NASAP Zone ⓘ  
8-SOUTH WEST

▼ Demand at Risk Details

Demand at Risk ⓘ

Demand at Risk Details ⓘ

Sensitive Site ⓘ

▼ Demand at Risk Details

Demand at Risk ⓘ

Demand at Risk Details ⓘ  
\*\*\*DEMAND AT SINGLE CCT RISK\*\*\* Axminster demand at risk to: AXMI-CHIC-MANN SC fault, AXMI MC1/SGT1, MANN4 Busbar faults.

Sensitive Site ⓘ

▼ Generation Risk Details - Internal

Generation Risk ⓘ

Cancel Save

# Asset Level (2/2) – Defining Demand at Risk

- If **Demand at Risk** is flagged, the **Demand Risk Assets** field will become visible on the **Related** tab of the Asset.
- Multiple **Demand Risk Assets** can be linked to a single Asset by clicking on **Add Assets**
- Once linked, click on the dropdown arrow on the right hand side, then click on **Add Risk Details**
- Here, the user can populate Risk Details including **MVA** at risk, **Fault Type** and any additional comments. Then click **Save**.
- Refresh the page to see the entered details appear.

Asset (Plant and Apparatus)  
**AXMI4.SGT.SGT2**

Demand Risk Assets (0) Add Assets

↓

Demand Risk Assets (1)

Asset Name	Asset Description	Substation Node 1	Substation Node 2	Fault Type	MVA
A-00002909	AXMINSTER SGT1	AXMINSTER 400KV	AXMINSTER 132KV		

Add Assets  
Remove  
Add Risk Details

[View All](#)

↓

Asset (Plant and Apparatus)  
**AXMI4.SGT.SGT2**

Demand Risk Assets (1) Add Assets

Asset Name	Asset Description	Substation Node 1	Substation Node 2	Fault Type	MVA
A-00002909	AXMINSTER SGT1	AXMINSTER 400KV	AXMINSTER 132KV	Single CCT	50

[View All](#)

# Basic Outage Level – Defining Demand at Risk

- Demand at Risk is also defined at the Basic Outage level i.e. if an Outage is always going to cause demand to be at risk to a fault, this can be marked within the Basic Outage.
- When an Asset that has **Demand at Risk** tagged is linked to a **Basic Outage**, the **Basic Outage** automatically inherits the **Demand at Risk** flag and **Demand at Risk Details**.
- **Demand At Risk** can also be manually flagged within the Basic Outage (same process as for an Asset).
- There are two fields available to populate:
  - Demand at Risk (tick to say yes)
  - Demand at Risk Details

The screenshot illustrates the process of adding an asset and defining demand at risk details. It is divided into three stages by downward arrows:

- Assets (0):** The initial state with no assets. A red box highlights the "Add Existing Assets" button.
- Assets (1):** An asset has been added. A table shows the asset details:

Asset Name	Asset Description	Status	Commissioning ...	Decommissionin...	Transmission Ow...
AXMI4.SGT.SGT2	AXMINSTER SGT2	Existing	1988-01-01		NGET

A red box highlights the table. A green success message "Success! Asset Record has been added" is displayed.
- Other:** The "Demand at Risk" field is checked, and the "Demand at Risk Details" field contains the text: "\*\*\*DEMAND AT SINGLE CCT RISK\*\*\* Axminster demand at risk to: AXMI-CHIC-". A red box highlights these fields.

# Outage Level (1/2) – Defining Demand at Risk

- If Demand at Risk is defined at Basic Outage level, then the **Demand at Risk** flag and **Demand at Risk Details** will be automatically inherited by Outages. The **Affects Sensitive Site** flag will be automatically inherited from Assets.
- If **Demand at Risk** is flagged, the **Demand Risk Asset** field will become visible on the **Related** tab of the Outage.
- The **Demand Risk Asset** details will be automatically inherited from **Assets** linked to the Basic Outage. It can also be configured manually in the Outage.
- The user can click **Add Assets** and link Asset(s) to which demand would be lost if faulted.
- Once linked, click on the dropdown arrow and click **Risk Details**
- Here, the user can stipulate the **MVA** at risk, **Fault Type** and any additional **comments**
- Click **Save** and refresh the page to view the updated details.

The screenshot illustrates the configuration of a Demand Risk Asset in a software interface. It is divided into three main sections:

- Top Section:** Shows a 'Demand Risk Asset (0)' state with an 'Add Assets' button highlighted in a red box.
- Middle Section:** Shows a table with one asset entry: 'A-00002909' (AXMINSTER SGT1) linked to substations 'AXMI4' and 'AXMI1'. A dropdown arrow on the right is highlighted in a red box. Below the table, an 'Edit AO-0006955' modal is open, showing fields for 'MVA' (set to 50), 'Fault Type' (set to 'Single CCT'), and a 'Comments' field containing '50MVA is at SC risk. 10MVA pick up within 1 hour confirmed by SSE. No pick up available from WPD.'. The 'Save' button in the modal is highlighted in a red box.
- Bottom Section:** Shows the 'Demand Risk Asset (1)' state where the table now includes the 'Single CCT' and '50' values. The 'Add Assets' button is also present.

# Outage Level (2/2) – Defining Demand at Risk

- The user may populate the **Restoration** and **Mitigation** fields (Note: SO and TO have permissions).
- Once complete, mark **Demand Risk Approval Status** as **With TO** to request the TO's approval.
- Demand Risk Approval Status** is a monitored field, therefore any change (i.e. when TO changes **Approval Status** field to **Approved**), will be recorded in **Outage History** – see example screenshot below.
- When Approval Status is **Approved**, the **Demand Risk Complete** box in the Outage is automatically ticked.

Note:

If Sensitive Site: SO must approve Demand at Risk; TO moves from With TO to With SO, the TO user does not have permissions to move to Approved  
 If not Sensitive Site: TO can and shall move directly to Approved.

Date	Field	User	Original Value	New Value
1 07/06/2021 10:58	Demand Risk Approval Status	Nathanael Sims NGET OP	With TO	Approved

# Field Descriptions - Demand at Risk

eNAMS Field	Object Level	Proposed Use
Demand at Risk Needed	Asset / Basic Outage / Outage	Check the box if an outage on this equipment will cause demand to be lost to a subsequent fault. Selection inherited from Asset -> Basic Outage -> Outage, can be added or taken away at each level. After checking the box, you may need to refresh the page for additional fields to appear.
Risk Details	Asset / Basic Outage / Outage	High level summary of why demand is at risk during an outage on this equipment e.g., on PEMB4 SGT1 it may say “Local demand at risk to faults losing SGT2” Outage is locked to the Basic Outage’s Risk Details (which can be set independent of the Asset if necessary).
Restoration	Outage	Description of recovery actions that will be taken post fault. Detailed description of any outage specific risks, e.g., “Demand will be transferred to X group in Y minutes”
Mitigation	Outage	Description of health checks or other mitigations carried out to ensure likelihood of fault is as low as possible
Affects Sensitive Site	Asset / Outage	Check the box if the demand that would be lost is at a sensitive site (site list provided in Work Instruction NAP-020). These sites require additional approval from ESO.
Demand Risk Approval Status	Outage	Initial – while drafting risk details. With TO – when ready for TO actions (i.e. Mitigation) With SO - only applicable at sensitive sites, which require NGESO final approval of demand at risk. Approved – can be set directly by the TO if non-sensitive site impacted.
Demand at Risk Asset	Asset / Basic Outage / Outage	Can be found in Related tab. List of assets to which demand is at risk to a fault on. Selection and values inherit from Asset -> Outage (via Basic Outage), additional assets can be added or taken away at Outage level.
Change History	Asset / Basic Outage / Outage	The date, time and user of each change will be recorded in the Field History Tracker which can be found in Related tab.

# Generation at Risk

Generation Risk was added to eNAMS to highlight occasions where a RoCoF / Vector Shift constraint might be triggered, where additional sanction could be needed or where an outage causes a largest loss.

Following FRCR Phase 1 go-live on 25/05/2021, BMU+VS losses are no longer required to be secured. However the intention is to continue to populate this field in the event of adverse weather, in line with provisions in the SQSS operational chapters which allow the Control Room to take additional actions over and above the agreed criteria if there is a period of significantly higher risk.

The benefit of recording in the Generation Risk field on the outage level is that a report can be run for commercial and the ENCC Energy and Strategy desks to review forecast risk as and when is necessary.

# Asset Level (1/2) - Defining Generation at Risk

- Generation Risk is only visible to SO.
- Like Demand at Risk, Generation Risk can be defined at the Asset level i.e. if an outage on an Asset is always going to cause generation to be at risk to a fault, this can be marked within the Asset.
- There are two fields available to populate:
  - **Generation Risk** (tick to say yes)
  - **Generation Risk Details**

The screenshot shows a web interface for defining Generation Risk. The top section is titled 'Generation Risk Details - Internal'. It contains two main fields: 'Generation Risk' with an unchecked checkbox and an information icon, and 'Generation Risk Details' with a text area. A red box highlights the 'Generation Risk' checkbox. A large grey arrow points down to a second screenshot of the same form. In this second screenshot, the 'Generation Risk' checkbox is checked, and the 'Generation Risk Details' text area contains the text: 'MARCHWOOD POWER STATION (910MW) WILL BE AT RISK TO A FAULT WHICH TRIPS THE MARCHWOOD-NURSLING 400KV CIRCUIT.' A red box highlights the 'Save' button at the bottom right of the form.

# Asset Level (2/2) - Defining Generation at Risk

- If **Generation Risk** is flagged, the **Generation Risk Assets** field will become visible on the **Related** tab of the Asset
- Multiple **Generation Risk Assets** can be linked to a single Asset by clicking on **Add Assets**
- Once linked, click on the dropdown arrow on the right hand side, then click on **Add Risk Details**
- Here, the user can populate Risk Details including **MVA** at risk, **Fault Type**, **Generators** and any additional **comments**. Then click **Save**.
- Refresh the page to see the entered details appear.

Details **Related**

Generation Risk Assets (0) Add Assets

Generation Risk Assets (1) Add Assets

Asset Name	Asset Descrip...	Substation N...	Substation N...	Fault Type	MVA	Generators
A-00001745	MARCHWOOD - NURSLING 400KV CIRCUIT	MARCHWOOD 4...	NURSLING 400KV			

Edit AH-0000052

Parent Asset: A-00001485

Child Asset: A-00001745

Fault Type: Single CCT

MVA: 299

Generators: MARCHWOOD POWER STATION

Cancel Save & New **Save**

Generation Risk Assets (1) Add Assets

Asset Name	Asset Descrip...	Substation N...	Substation N...	Fault Type	MVA	Generators
A-00001745	MARCHWOOD - NURSLING 400KV CIRCUIT	MARCHWOOD 4...	NURSLING 400KV	Single CCT	299	MARCHWOOD P...

Note: there is a current defect in eNAMS that will limit maximum MVA at risk to 300MW at Asset level, this has been escalated for fix

# Basic Outage Level – Defining Generation at Risk

- Generation Risk is also defined at the Basic Outage level i.e. if an Outage is always going to cause generation to be at risk to a fault, this can be marked within the Basic Outage.
- When an Asset that has **Generation Risk** tagged is linked to a Basic Outage, the Basic Outage automatically inherits the **Generation at Risk** flag and **Generation at Risk** Details.
- **Generation at Risk** can also be manually flagged within the Basic Outage (same process as for an Asset).
- There are two fields available to populate:
  - **Generation at Risk** (tick to say yes)
  - **Generation at Risk** Details

Assets (0) Add Existing Assets



Assets (1) Add Existing Assets

Asset Name	Asset Description	Status	Commissioning ...	Decommissionin...	Transmission Ow...
MAWO4.OHL.FAWL4	MARCHWOOD - FAWLEY 400KV CIRCUIT	Existing	1988-01-01		NGET

Success! Asset Record has been added



Generation at Risk

Generation at Risk Details  
MARCHWOOD POWER STATION (910MW) WILL BE AT RISK TO A FAULT WHICH TRIPS THE MARCHWOOD-NURSILING 400KV CIRCUIT.

# Outage Level (1/2) – Defining Generation at Risk

- If Generation at Risk is defined at Basic Outage level, then the **Demand at Risk** flag and **Demand at Risk Details** will be automatically inherited by Outages.
- If **Generation at Risk** is flagged, the **Generation Risk Asset** field will become visible on the **Related** tab of the Outage.
- The **Generation Risk Asset** details will be automatically inherited from **Assets** linked to the Basic Outage. It can also be configured manually in the Outage.
- The user can click **Add Assets** and link Asset(s) to which generation would be lost if faulted
- Once linked, click on the dropdown arrow and click **Risk Details**
- Here, the user can stipulate the **MVA** at risk, **Fault Type**, **Generators** and any additional comments
- Click **Save** and refresh the page to view the updated details.

The interface shows the 'Related' tab for an outage. At the top, there is a 'Generator Risk Asset (0)' section with an 'Add Assets' button. Below this is a table with columns: Asset Name, Asset Description, Substation Name, Substation Name, Fault Type, MVA, and Generators. The table contains one entry: A-00001745, MARCHWOOD - NURSILING 400KV CIRCUIT, MAWO4, NURS4A. A dropdown arrow is visible in the Generators column.

An arrow points to a modal window titled 'Edit AO-0006984'. This window contains fields for Asset (Plant and Apparatus), MVA (910), Comments (MARCHWOOD POWER STATION (910MW) AT SC RISK), Outage (ON-0011907), Demand Risk Asset (checkbox), Generation Risk Asset (checkbox), Generators (MARCHWOOD POWER STATION), Fault Type (Single CCT), and a Save button.

Below the modal, the table is updated to show the following details:

Asset Name	Asset Description	Substation Name	Substation Name	Fault Type	MVA	Generators
A-00001745	MARCHWOOD - NURSILING 400KV CIRCUIT	MAWO4	NURS4A	Single CCT	910	MARCHWOOD P...

# Outage Level (2/2) – Defining Generation at Risk

- If Generation at Risk is acceptable, the appropriate user can mark **Generation Risk Review Status** as **Reviewed**
- Following this, the **Generation Risk Complete** box is automatically ticked
- Note: **Generation Risk Review Status** or **Generation Risk Complete** fields are not a monitored field, therefore any change would not be recorded in Outage History.

Generation Risk Details - Internal

Generation Risk Review Status ⓘ

Not Reviewed

--None--

✓ Not Reviewed

Reviewed

Generation at Risk Details

MARCHWOOD POWER STATION (910MW) WILL BE AT RISK TO A FAULT WHICH TRIPS THE MARCHWOOD-NURSLING 400KV CIRCUIT.

*This field is calculated upon save*

Reserve/Response ⓘ

Generator Risk Needed

Generation Risk Complete

# Field Descriptions – Generation at Risk

eNAMS Field	Object Level	Proposed Use
Generation at Risk Needed	Asset / Basic Outage / Outage	Check the box if an outage on this equipment will cause a generator to be lost to a subsequent fault. Selection inherited from Asset -> Basic Outage -> Outage, can be added or taken away at each level. After checking the box, you may need to refresh the page for additional fields to appear.
Risk Details	Asset / Basic Outage / Outage	High level summary of why generation is at risk during an outage on this equipment e.g. "Following fault on X Circuit I/T will trip off generator" Outage is locked to the Basic Outage's Risk Details (which can be set independent of the Asset if necessary).
Generation Risk Approval Status	Outage	Not Reviewed – risk is identified but not yet approved. Reviewed – risk has been agreed to.
Generation Risk Asset	Asset / Basic Outage / Outage	Can be found in Related tab. List of assets to which demand is at risk to a fault on. Selection and values inherit from Asset -> Outage (via Basic Outage), additional assets can be added or taken away at Outage level. <b>There is a current defect in eNAMS that will limit maximum MW at risk to 300MW at the Asset level, this has been escalated for fix.</b>
Change History	Asset / Basic Outage / Outage	The date, time and user of each change will be recorded in the Field History Tracker which can be found in Related tab.

# Seasonal Risk

Seasonal Risk replaces 'Risk 18', 'ERTS risk' or 'Winter Risk'. Currently this applies to outages with an ERTS > 18H (>= 18H in E&W) in the Winter period - between Week 45 and Week 9.

The requirement for assessing Seasonal Risk is stated in STCP 11-1 (extract taken in 2021):

*“The types of faults on the National Electricity Transmission System in winter tend to have a greater potential for longer repair times and there is a greater potential for circuits to be recalled to secure the Transmission System against severe weather conditions. All Outages placed in the Winter Period that have an Emergency Return to Service Time greater than 24 hours must be pre-approved by both NGESO and the relevant TO”*

# Defining Seasonal Risk (1/2)

- Seasonal Risk is defined on the Outage level only
- For Outages where ERTS > 18H and is planned between Week 45 – 9, the **Seasonal Risk Needed** flag should be set
- This flag is set automatically for Outages that meet that aforementioned criteria\*
- For those not automatically set, this can be done by clicking on **Manual Override Seasonal Risk** field and selecting **Seasonal Risk**
- The **Seasonal Risk Needed** flag will then be automatically ticked.

The image shows a two-part screenshot of a web interface. The top part shows the 'Manual Override Seasonal Risk' dropdown menu with 'Seasonal Risk' selected. The bottom part shows the 'Seasonal Risk Needed' checkbox checked, with an arrow pointing from the dropdown to this checkbox. Other fields like 'Seasonal Risk Complete' and 'Mitigation' are also visible but not the focus.

Seasonal Risk Needed  This field is calculated upon save

Manual Override Seasonal Risk

--None--

✓ Seasonal Risk

Not Seasonal Risk

Seasonal Risk Complete  This field is calculated upon save

Mitigation

Seasonal Risk Needed

Manual Override Seasonal Risk

Seasonal Risk Complete

\*note: there is an outstanding defect which doesn't automatically tag ONCOM outages as Seasonal Risk Needed if it meets the aforementioned criteria. This has been escalated for resolution.

# Defining Seasonal Risk (2/2)

- Following requisite checks, the user may tick against **Dependency**, **Restriction**, **Reserve/Response**, **Risk** fields to indicate acceptance against each category
- **Seasonal Risk Review Status** can be changed to **Reviewed** to indicate agreement to Seasonal Risk.
- **Seasonal Risk Complete** flag will then be automatically ticked
- Note: **Seasonal Risk Review Status** or **Seasonal Risk Complete** are not a monitored field, therefore any change would not be recorded in Outage History
- Only the SO has access to view the Seasonal Risk Details section. TO only has permissions to view Seasonal Risk Needed / Complete section.

The image shows a two-step process for defining seasonal risk. The top screenshot, titled "Seasonal Risk Details - Internal", shows a form with several sections highlighted in yellow and enclosed in a red border. These sections include: "Dependency" with a checked checkbox; "Restriction" with a checked checkbox; "Reserve/Response" with a checked checkbox; "Risk" with a checked checkbox; and "Seasonal Risk Review Status" with a dropdown menu set to "Reviewed". A large grey arrow points downwards to the second screenshot. The bottom screenshot shows a summary view with two fields: "Seasonal Risk Needed" with a checked checkbox, and "Seasonal Risk Complete" with a checked checkbox. The "Seasonal Risk Complete" field is highlighted with a red border, indicating that it is automatically ticked when the review status is set to "Reviewed".

# Field Descriptions – Seasonal Risk

eNAMS Field	Object Level	Proposed Use
Seasonal Risk Needed	Outage	Calculated field, eNAMS will check the box if the criteria is met <i>There is an outstanding defect as it doesn't pick up on ONCOM ERTS outages. This has been escalated to fix.</i>
Manual Override Seasonal Risk	Outage	Can be used to add Seasonal Risk to an outage that has not been automatically marked.
Dependency	Outage	Check the box to confirm there is no / approved dependency on generation during this outage.
Reserve/Response	Outage	Check the box to confirm there is no / approved constraint of reserve/response during this outage.
Restriction	Outage	Check the box to confirm there is no / approved constraint of generation during this outage.
Risk	Outage	Check the box to confirm there is no / approved additional risk to generation during this outage.
Seasonal Risk Review Status	Outage	Not Reviewed – Requirement is identified and pending assessment outcome. Reviewed – All four boxes are ticked and there are no issues, or any issues have been approved through sanctioning.
Change History	Outage	The date, time and user of each change will be recorded in the Field History Tracker which can be found in Related tab.

# ERTS Profiling

*ERTS Profile in eNAMS enables a more granular view of an Outage ERTS to be made available to the SO by the TO*

# Defining ERTS Profile

- An ERTS Profile can be raised from the **Initial** page of a new Outage / Outage Change Request
- From the Outage page in Initial status, scroll down to **ERTS Profile** (in TO view)
- Click on **New** button found within the ERTS Profile field
- Populate the **New ERTS Profile: ERTS Profile** popup as much as possible, and provide details of the reason for the ERTS entry in the **Comments** field
- Click **Save**
- Create multiple ERTS Profile entries to cover the entire period of the Outage
- (Please note there is no logic to prevent ERTS Profile entries overlap – this is a known defect to be rectified)



A screenshot of the 'New ERTS Profile: ERTS Profile' form. The form is titled 'New ERTS Profile: ERTS Profile' and contains the following fields:

- Information
- ERTS Profile Number
- \*Outage: ON-0012911
- \*Period Start: 03/08/2021
- \*Period End: 18/08/2021
- Emergency Return To Service: Day: 12
- Emergency Return to Service: Day Units: Hours
- Emergency Return To Service: Night: 18
- Emergency Return to Service: Night Units: Hours
- OnCom:
- \*Comments: Period 1 - Jumpers broken

At the bottom right of the form, there are 'Cancel' and 'Save' buttons. The 'Save' button is highlighted with a red box.

# Interpreting Outage History

# Outage Lifecycle Example

We shall use an example of an Outage that has had the following lifecycle:

- 1) New Outage Rejected
- 2) Outage Resubmitted and Accepted
- 3) Change of Start Date (One day earlier) Accepted
- 4) Change of ERTS (to ONCOM) Accepted
- 5) Change of End Date (Delay end by one day) Rejected
- 6) Outage TBA request submitted and Accepted
- 7) Outage requested from TBA to Planned and Accepted
- 8) Outage Cancelled

Records of Outage

Outage Change Requests (7)						
Outage Name	Status	Change Type	Change Description	CreatedDate	Created By	
ON-0011912	Approved	Cancel	Outage works were bundled and completed in another booking therefore this booking is no longer required.	08/06/2021	Nathanael Sims NGET OP	
ON-0011912	Approved	TBA	Ops confirmed they are now able to resource - please reinstate into plan for old Planned	08/06/2021	Nathanael Sims SO	
ON-0011912	Approved					
ON-0011912	Rejected					
ON-0011912	Approved					
ON-0011912	Approved					
ON-0011912	Approved					

Outage History					
29 Items - Sorted by Date - Updated 14 minutes ago					
Date	Field	User	Original Value	New Value	
1 07/06/2021 16:09	Change Code	Nathanael Sims SO	9 - TO Resource	13 - Bundling / Opportunity Outage	
2 07/06/2021 16:09	Change Description	Nathanael Sims SO	Ops confirmed they are now able to resource - please reinstate into plan for old P...	Outage works were bundled and completed in another booking therefore this bo...	
3 07/06/2021 16:09	Status	Nathanael Sims SO	Planned	Cancelled	
4 07/06/2021 16:08	Status	Nathanael Sims SO	With SO	Planned	
5 07/06/2021 16:06	Status	Nathanael Sims NGET OP	Initial	With SO	
6 07/06/2021 16:06	Change Code	Nathanael Sims NGET OP	11 - Replan TBA	9 - TO Resource	
7 07/06/2021 16:06	Change Description	Nathanael Sims NGET OP	To TBA - Ops no longer able to resource	Ops confirmed they are now able to resource - please reinstate into plan for old P...	
8 07/06/2021 16:06	Status	Nathanael Sims NGET OP	TBA	Initial	
9 07/06/2021 16:05	Change Code	Nathanael Sims SO	13 - Bundling / Opportunity Outage	11 - Replan TBA	
10 07/06/2021 16:05	Change Description	Nathanael Sims SO	CAN WE CHANGE ERTS TO ONCOM	To TBA - Ops no longer able to resource	
11 07/06/2021 16:05	Status	Nathanael Sims SO	Planned	TBA	
12 07/06/2021 16:00	Change Code	Nathanael Sims SO	9 - TO Resource	13 - Bundling / Opportunity Outage	
13 07/06/2021 16:00	Change Description	Nathanael Sims SO	START ONE DAY EARLIER - NOW 15/06/2021	CAN WE CHANGE ERTS TO ONCOM	
14 07/06/2021 16:00	Emergency Return To Service: Day	Nathanael Sims SO	4		
15 07/06/2021 16:00	Emergency Return To Service: Night	Nathanael Sims SO	6		
16 07/06/2021 16:00	Emergency Return To Service: Day Units	Nathanael Sims SO	Hours		
17 07/06/2021 16:00	Emergency Return To Service: Night Un...	Nathanael Sims SO	Hours		
18 07/06/2021 15:58	Change Code	Nathanael Sims SO	1 - New work identified in current year	9 - TO Resource	
19 07/06/2021 15:58	Change Description	Nathanael Sims SO	NEW	START ONE DAY EARLIER - NOW 15/06/2021	
20 07/06/2021 15:58	Planned Start Date/Time	Nathanael Sims SO	15/06/2021 02:00	14/06/2021 02:00	
21 07/06/2021 15:57	Status	Nathanael Sims SO	With SO	Planned	
22 07/06/2021 15:56	Status	Nathanael Sims NGET OP	Initial	With SO	
23 07/06/2021 15:56	Status	Nathanael Sims NGET OP	Rejected	Initial	
24 07/06/2021 15:56	Work Involved	Nathanael Sims NGET OP			
25 07/06/2021 15:56	Status	Nathanael Sims SO	With SO	Rejected	
26 07/06/2021 15:54	Status	Nathanael Sims NGET OP	Initial	With SO	
27 07/06/2021 15:54	Created.	Nathanael Sims NGET OP			
28 07/06/2021 15:54	Demand Risk Approval Status	Nathanael Sims NGET OP		Initial	
29 07/06/2021 15:54	Owner	Nathanael Sims NGET OP		NGET	

# Change Requests and Outage History Use

- It is important to highlight that **Change Requests** must be viewed in conjunction with **Outage History** to appreciate all the details of a historical change / open Change Request of an Outage.
- **Change Requests** are required to view:
  - Who submitted a Change Request and when
  - Any details of an open Change Request (i.e. what is changing)
  - Details of any fields not tracked by Outage History (not included in list of 20 tracked fields).
- **Outage History** field simply tracks any changes to an Outage (i.e. acknowledges changes made under a Change Request only once Approved). This includes an Outage that has never been in Planned status, therefore any changes are made directly in the Outage (not through a Change Request).
- An example to illustrate its limitations is the below where the **Outage History** skips out **Rejected** Change Request (No. 5 from previous slide)

## No. 6) of Outage Lifecycle Example: Outage to TBA - Accepted

6	07/06/2021 16:06	Change Code	Nathanael Sims NGET OP	11 - Replan TBA	9 - TO Resource
7	07/06/2021 16:06	Change Description	Nathanael Sims NGET OP	To TBA - Ops no longer able to resource	Ops confirmed they are now able to resource - please reinstate into plan for old P...
8	07/06/2021 16:06	Status	Nathanael Sims NGET OP	TBA	Initial
9	07/06/2021 16:05	Change Code	Nathanael Sims SO	13 - Bundling / Opportunity Outage	11 - Replan TBA
10	07/06/2021 16:05	Change Description	Nathanael Sims SO	CAN WE CHANGE ERTS TO ONCOM	To TBA - Ops no longer able to resource

## No. 4) of Outage Lifecycle Example: Change ERTS - Accepted

# Difference With Original Outage

- The **Difference With Original Outage** button in a Change Request will open a **Difference With Original Outage** tab.
- It can be used effectively for open Change Requests (i.e. Change Requests at Initial or With SO Status) as the columns represent:
  - Original Value = current Planned Outage
  - New Value = open Change Request
- Conversely, it is not effective for closed Change Requests (i.e. Change Requests at Accepted / Rejected / Cancelled Status), as it will only show you what has changed since the Change Request as opposed to what changed under the Change Request. Furthermore, as would be expected, the latest closed Change Request will be blank in both the **Original Value** and **New Value** column.
- As a result, it is important to interrogate **Outage History** field to understand what changed under a particular **Change Request**, by matching the dates / time of a Change Request being **Accepted** (i.e. Last Modified Date) to the **Outage History Date** column to find the relevant changes.

View Change Request when No.6 of Outage Lifecycle Example was pending (Open Change Request)

Difference With Original Outage		
Field Name	Original Value	New Value
Change Code	13 - Bundling / Opportunity Outage	2 - OESB/ EMI / RHMZ
Planned End Date Time	2021-06-29 11:00:00	2021-06-30 11:00:00
Duration(Days)	16	17
Change Description	CAN WE CHANGE ERTS TO ONCOM	CHANGE END DATE - DELAY BY ONE DAY

View same Change Request as above but now after No.8 of Outage Lifecycle Example

Difference With Original Outage		
Field Name	Original Value	New Value
Change Code	13 - Bundling / Opportunity Outage	2 - OESB/ EMI / RHMZ
Change Type	To Cancel	To Update
Planned End Date Time	2021-06-29 11:00:00	2021-06-30 11:00:00
Duration(Days)	16	17
Change Description	Outage works were bundled and completed in another booki...	CHANGE END DATE - DELAY BY ONE DAY

# Interpreting Migrated Outages History

- Outages have been migrated from TOGA to eNAMS in line with criteria given to preserve Outage history required for reporting purposes and for day to day tasks, while acknowledging technical limitations which prevent a full scale replica of what is available in TOGA in regards to history.
- Some of the limitations of mapping between TOGA -> eNAMS that users should be aware of when interrogating the history of migrated Outage data:
  - There is no mapping for Outage changes in TOGA that were made without a change request. A change request in TOGA constitutes [Status] -> Awaiting Agreement (primarily used for E&W Outages) or a Request Outage (primarily used for Scotland and GB YA Outages).
  - Rejected Outages are not migrated into eNAMS from Request Outages in TOGA, due to technical limitations. Rejected Outages have however been migrated from the Planned Outages area in TOGA (therefore no limitations for E&W Planners).
  - TOGA Change Date & Time is mapped to eNAMS Created Date & Time, therefore:
    - For open CR's (i.e. With SO status), the Created Date & Time is accurate.
    - For closed CR's (i.e. in Approved / Rejected status), Date & Time the request was signed in in TOGA = Created Date & Time in eNAMS, therefore is not accurate.
  - eNAMS Last Modified Date & Time is populated as Data migration date & time, therefore is not accurate for migrated Outages.
  - “Outage History” field is blank for migrated Outages due to limitations.
  - “Changed By” field in eNAMS CR is correctly mapped to display the name of the person who signed in the change in TOGA.
  - “Created By” field states a generic Data Migration Salesforce ID due to limitations.

# Cross-boundary Outages

# Cross-boundary Outages

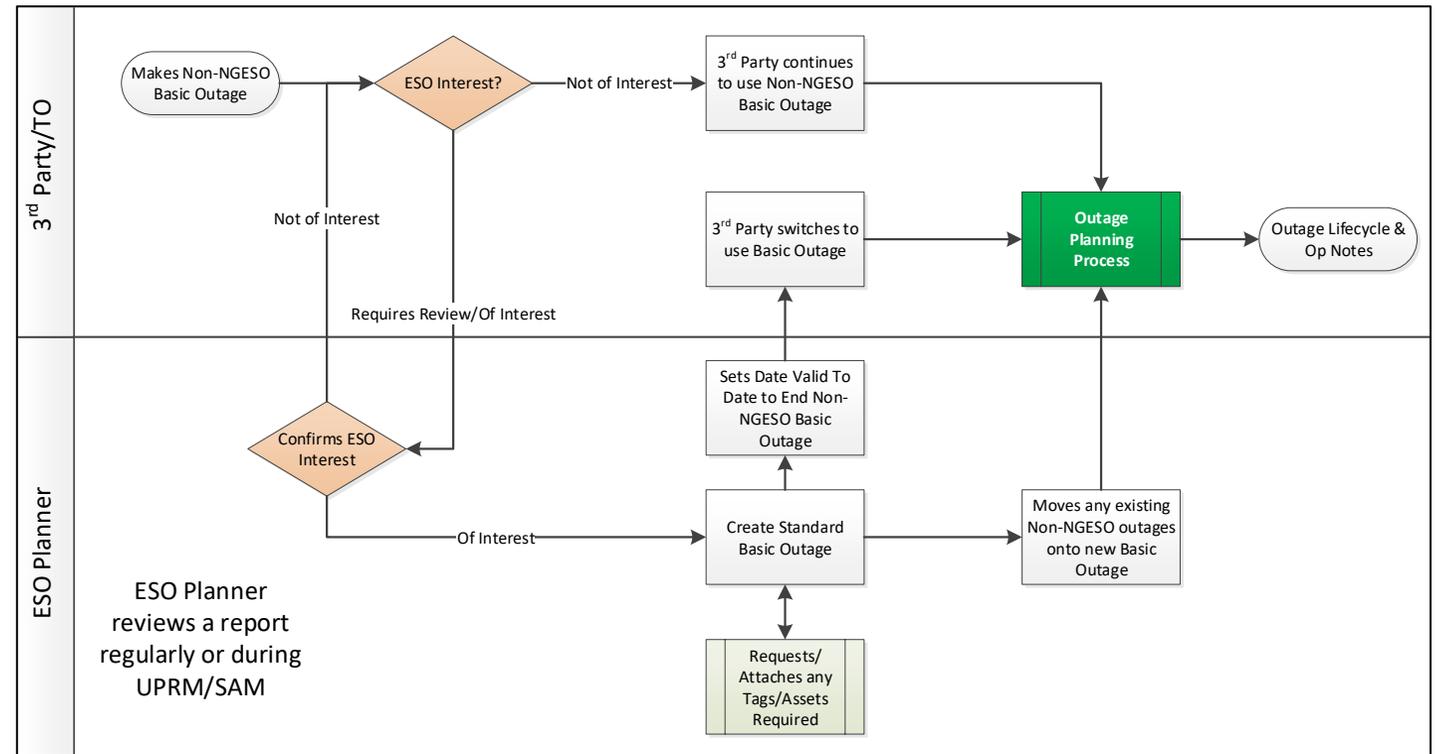
- Cross-boundary Outages can be created in eNAMS (a feature that wasn't available in TOGA).
- The premise of this functionality is to provide a single booking for Outages that span two TO's.
- Using Cross-boundary Basic Outages when raising Outages that span more than one TO eliminates the need to raise a "mirror booking" as was necessary in TOGA.
- There are two Cross-boundary Basic Outages for each circuit where the circuit spans two TO's, one Cross-boundary Basic Outage for each Owner of the circuit
- There are two fields within a Cross-boundary Basic Outage that enable visibility of a Cross-boundary Outages by both affected TO's.
  - **Owner** – this is the TO who has requested the outage (i.e. the one conducting work on the circuit)
  - **Boundary Transmission Owner** – this is the TO affected by the cross-boundary outage

The image shows a screenshot of a web form with two sections: 'Ownership Detail' and 'Basic Outage Description'. In the 'Ownership Detail' section, there is a dropdown menu labeled 'Owner' with the value 'NGET' selected. In the 'Basic Outage Description' section, there is a dropdown menu labeled '\* Boundary Transmission Owner' with the value 'SPT' selected. Both dropdown menus are highlighted with a red border.

# Non-NGESO Outages

# Non-NGESO Outages

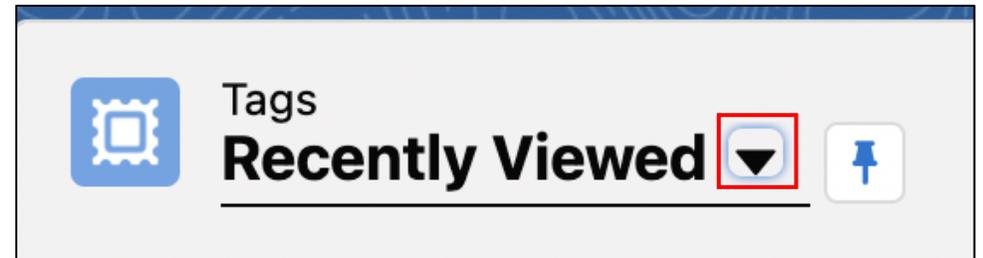
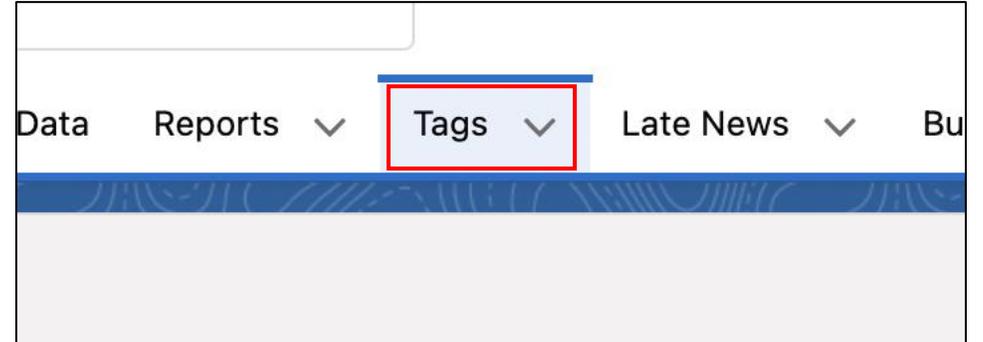
- Non-NGESO Outages are intended to be used by Third Parties (currently DNO's only) to submit their outages directly in eNAMS to be reviewed by ESO
- The Non-NGESO Outage differs from the normal Outage in one significant way in that it does not have an approval or change request process built into eNAMS (on the backlog for addressing post go-live).
- The DNO is able to create a Non-NGESO Basic Outage and advise of whether it is of ESO interest (i.e. affects ESO outage planning) or not
- If it is not of interest, the DNO may submit Non-NGESO outages directly into eNAMS
- If it is of interest, the ESO shall withdraw the Non-NGESO Basic Outage and create a standard Basic Outage for it which the DNO can use to submit outages to ESO for approval.



# Tags and Affected Users

# Purpose and Types of Tags

- Tags are essentially keywords that can be associated with records.
- These keywords are used to categorize and search the data easily.
- Tags can be accessed from the toolbar in eNAMS under **Tags** and filtered using the **dropdown arrow** shown on the right.
- There are four types of Tags present in eNAMS:
  - **ESO Party**
    - These are the same as SO Party Tags in TOGA, these include PLNTH and CTRSCOTN Tags
  - **External Party**
    - These Tags are used to identify affected parties and are associated with Accounts
  - **Free Codes**
    - These cover a wide variety and can be created and linked freely to Outages
  - **Scheme**
    - Each Tags is associated with a Scheme therefore can be used effectively to bundle Outages relating to a project



# Outages Visibility using Tags / Accounts

- Permissions for visibility is granted to external parties (i.e. not ESO) by adding their Account as an **Affected User** to Outages (inherited from Basic Outage).
- By also adding their **External Party** tag as a **Tag** to Outages (inherited from Substation, Asset, Basic Outage) this allows the company Account and OC2 reports to filter data to the appropriate contacts.
- For example, UKPN has an Electricity Account in eNAMS which is set as an Affected User on all Outages which affect UKPN. It also has External Party Tags which represent each of the subsidiaries (London, Eastern and South-Eastern). These are added individually as Tags on the Outages that affect the subsidiary.
- The example on the right is a Brimsdown 132kV outage which affects both UKPN-E and UKPN-L
- Each Affected User has an **Access Level** which defines the permissions available to the party, these are **Read** or **Read & Write**.
- If a company is the Owner of a Basic Outage (and therefore Outage), they do not need to be an Affected User to have Read & Write permissions of the Outage

The screenshot displays two sections: 'Affected User (2)' and 'Tags (6)'. The 'Affected User' table lists two entries: 'UK POWER NETWORKS (OPERATIONS) LIMIT...' and 'UNIPER UK LIMITED', both with 'Affected User' type and 'Read' access level. The 'Tags' table lists six entries: 'CTRSOUTH', 'PLSTH', 'PI33563', 'UKPNE', 'UKPNL', and 'EECL'. The 'UKPNE' and 'UKPNL' entries are highlighted with a red box, indicating they are External Party tags for Eastern and London Power Networks PLC respectively.

Account Name	Affected User Type	Access Level	Effective Date
UK POWER NETWORKS (OPERATIONS) LIMIT...	Affected User	Read	
UNIPER UK LIMITED	Affected User	Read	

[View All](#)

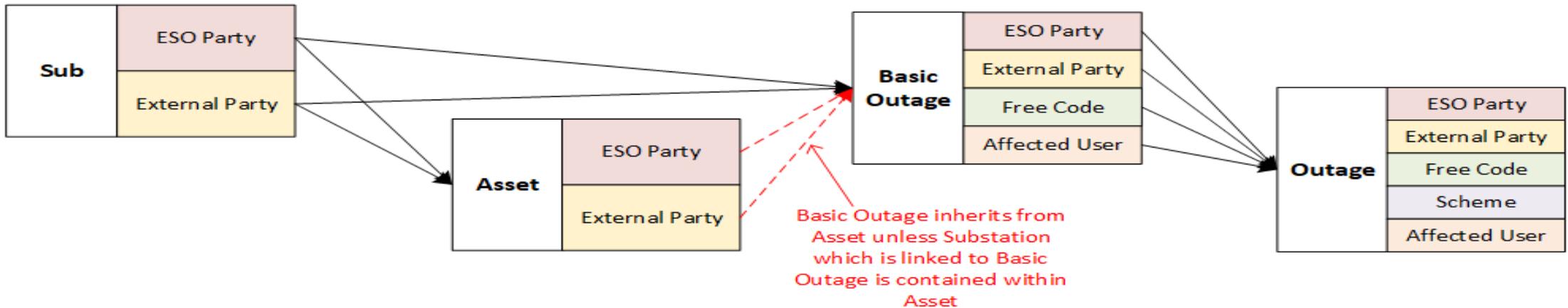
Tag Name	Description	Tag Type	Inactive
CTRSOUTH	Control South	ESO Party	<input type="checkbox"/>
PLSTH	Planning South	ESO Party	<input type="checkbox"/>
PI33563	Bay Refurb	Scheme	<input type="checkbox"/>
UKPNE	EASTERN POWER NETWORKS PLC	External Party	<input type="checkbox"/>
UKPNL	LONDON POWER NETWORKS PLC	External Party	<input type="checkbox"/>
EECL	Enfield Energy Centre	External Party	<input type="checkbox"/>

[View All](#)

[Add Tags](#)

# Tags Inheritance

- Tags and Affected Users are inherited in line with the following:
  - Substation to Asset: Inherit **ESO Party** & **External Party** Tags
  - Substation to Basic Outage: Inherit **ESO Party** & **External Party** Tags
  - Asset to Basic Outage: Inherit **ESO Party** & **External Party** Tags
  - Basic Outage to Outage: Inherit **ESO Party** & **External Party** & **Free Code** Tags and **Affected User**



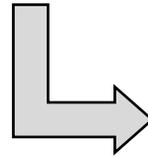
- When Tags are added to objects, an **Effective Date** field is used to apply the Tag to all Outages with a Planned End Date of equal to or after the Effective Date

Effective Date
<input type="text"/>

# Deactivating / Deleting Tags (1/2)

- eNAMS currently only has an Effective Date field for removing ESO Party & Free Codes Tags and Affected Users
- For the other types of Tags, there is a manual process for deleting Tags from objects in eNAMS
- If a Tag is no longer relevant / needed:
  - Open the **Tag**
  - Click on **Inactive** field and check the box
  - A tick will appear in the Inactive column of all objects (Assets / Basic Outages / Outages etc.) that have the Tag linked

Tag Name	Description	Tag Type	Inactive
ESOPARTY9	ESOPARTY9	ESO Party	<input type="checkbox"/>
EXTPARTY9	EXTPARTY9	External Party	<input type="checkbox"/>
ESOPARTY00	ESOPARTY00	ESO Party	<input type="checkbox"/>



Delete Tag Assignments

Enter Removal Effective Date

Cancel Remove

Details Related

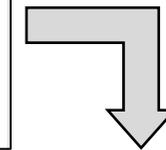
Tags Name: PI32019

Description: New SGT3 at Eaton Socon

Inactive:

Owner: NGET

Other Asset Owner: Search Accounts...



Tag Name	Description	Tag Type	Inactive
PI32019	New SGT3 at Eaton Socon	Scheme	<input checked="" type="checkbox"/>

# Deactivating / Deleting Tags (2/2)

- If a Tag needs to be removed from select objects, then the process that needs to be followed depends on the type of Tag
- As mentioned in the previous slide, the Effective Date filter is available for Affected Users, ESO Party & Free Code Tags
- For other types of Tags, a manual process is necessary
- If, for example, a Scheme Tag needs to be deleted from a Substation and the user wishes to remove the same Tag from Outages in the future, they must do the following:
  - Go to the **Substation** and go to the **Tags** field then delete the Tag by clicking the **dropdown arrow** and click **Remove**
  - On **Search Basic Outages** page, search **Basic Outages** by that Tag
  - Go into each **Basic Outage** individually to remove the **Tag** in question
  - Follow the same process for **Outages** using the **Search Outage** page as for Basic Outages

# Tags for Querying Regions

- Each object (Substation, Asset, Basic Outages, Outages etc.) in TOGA was assigned a “Licensed Area” which was NGET, SHETL or SPT
- This however came with drawbacks in that all objects were visible to at least one TO
- eNAMS does not have a “Licensed Area” field and instead categorises each object by its Owner.
- This allows OFTO outages, for instance, to be visible to the OFTO but not the onshore TO where they are not affected
- Due to the fact that there could be several Owners (i.e. OFTO’s, DNO’s, TO’s) in a single Licensed Area, it is not appropriate to query using the Owner field if searching for everything that falls within a region.
- The search query needs to be conducted using the **Tags** field in eNAMS
- The below table shows what **Tags** are suggested when querying for all objects affecting a region in eNAMS

Role	Region	Identifier used in TOGA	Identifier to be used in eNAMS
<b>National</b>	E&W	E&W (Licensed Area)	PLSTH + PLNTH (Tag)
	Scotland	SHETL + SPT (Licensed Area)	PLSCOT or CTRSCOTN + CTRSCOTS (Tag)
<b>Outage Planning</b>	E&W South	PLSTH (SO Party)	PLSTH (Tag)
	E&W North	PLNTH (SO Party)	PLNTH (Tag)
	Scotland North	SHETL (Licensed Area)	CTRSCOTN (Tag)
	Scotland South	SPT (Licensed Area)	CTRSCOTS (Tag)

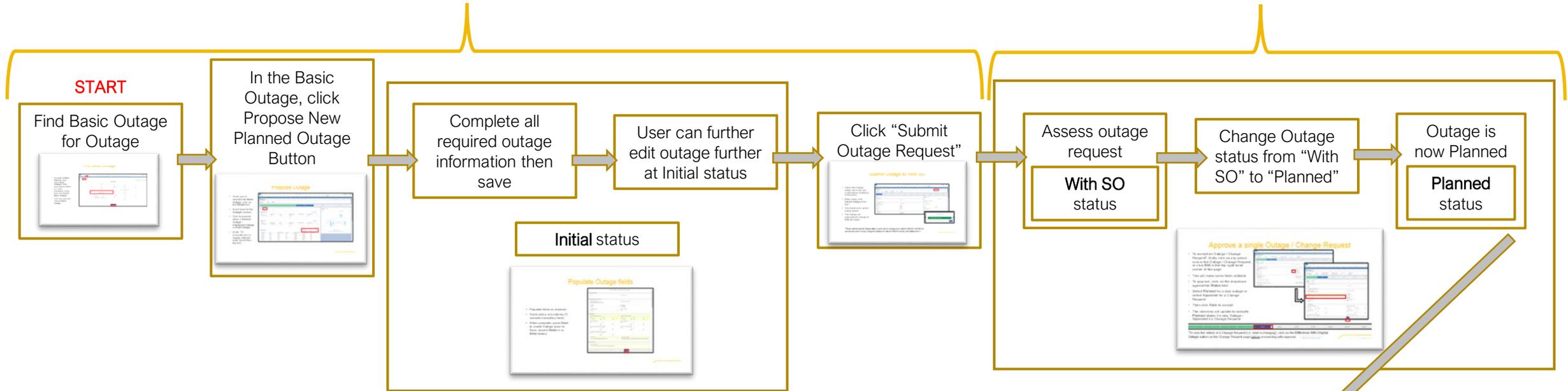
# Appendix – Outage Change Scenarios

# 1) New Outage -> Accepted into plan

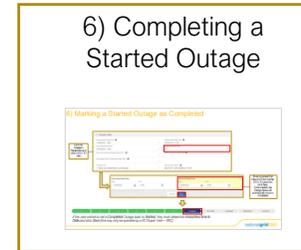
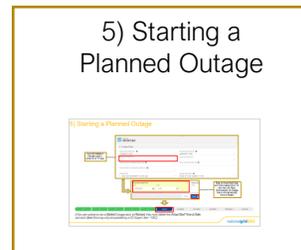
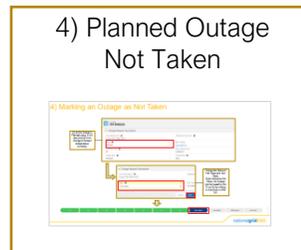
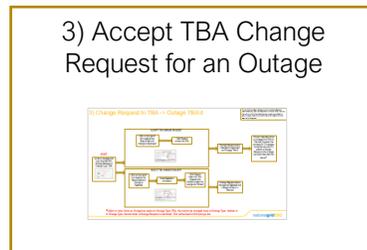
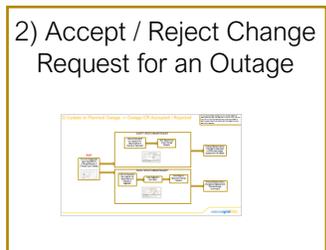
To use these outage change scenario process diagrams most effectively, start the slide show in Power Point. You can then click on the thumbnail pictures to see more detail on each process stage if you need to and click again to come back to this diagram.

SO or TO users can do these steps (usually a TO though)

Only SO users can do these steps

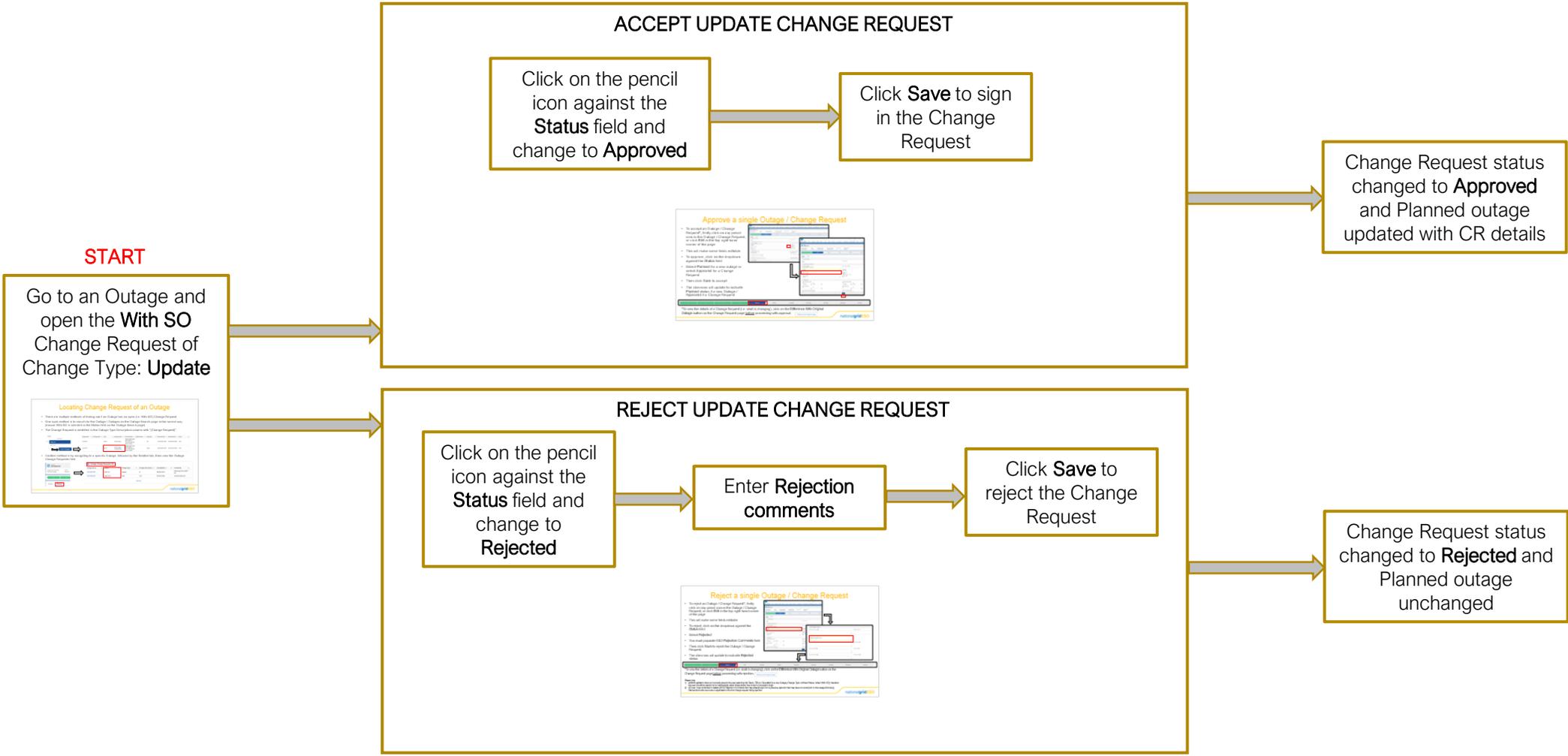


Links to further outage change scenarios that follow directly on from this one:



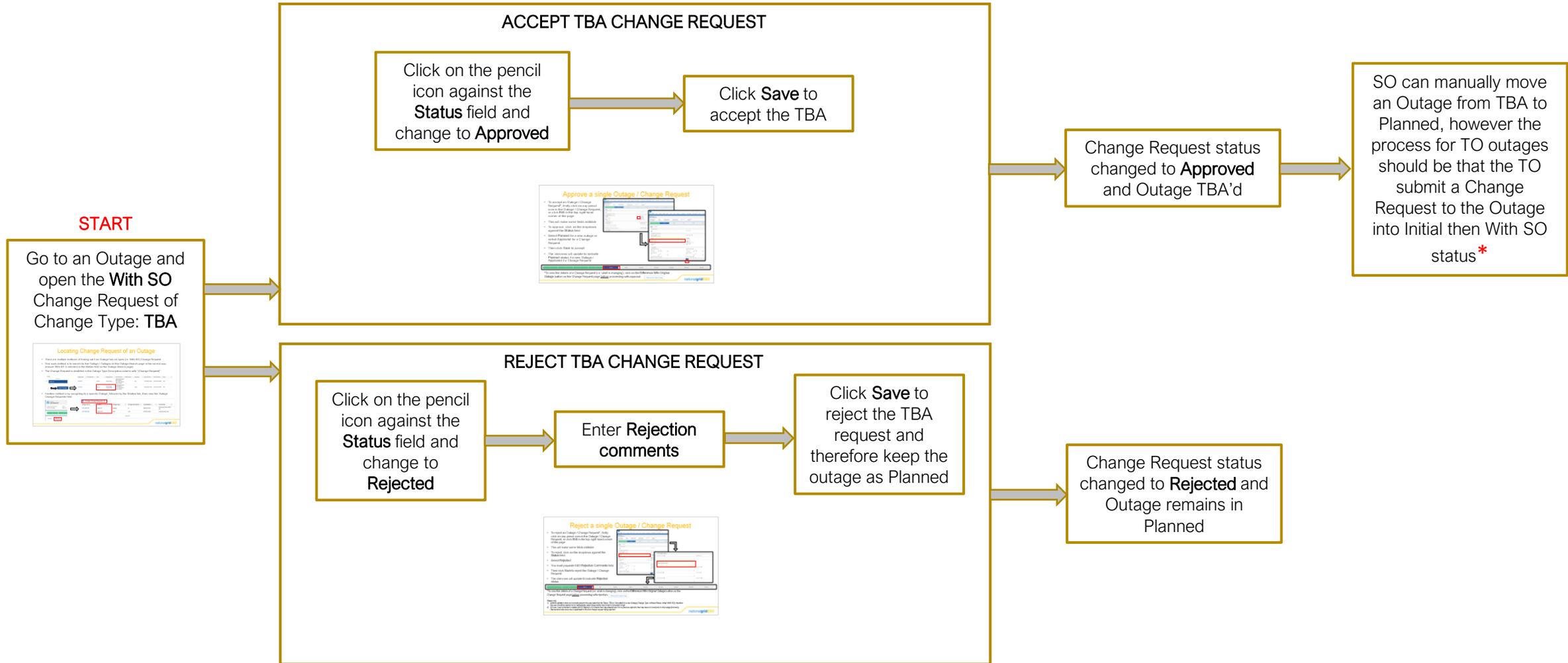
# 2) Update to Planned Outage -> Outage CR Accepted / Rejected

To use these outage change scenario process diagrams most effectively, start the slide show in Power Point. You can then click on the thumbnail pictures to see more detail on each process stage if you need to and click again to come back to this diagram.



# 3) Change Request to TBA -> Outage TBA'd

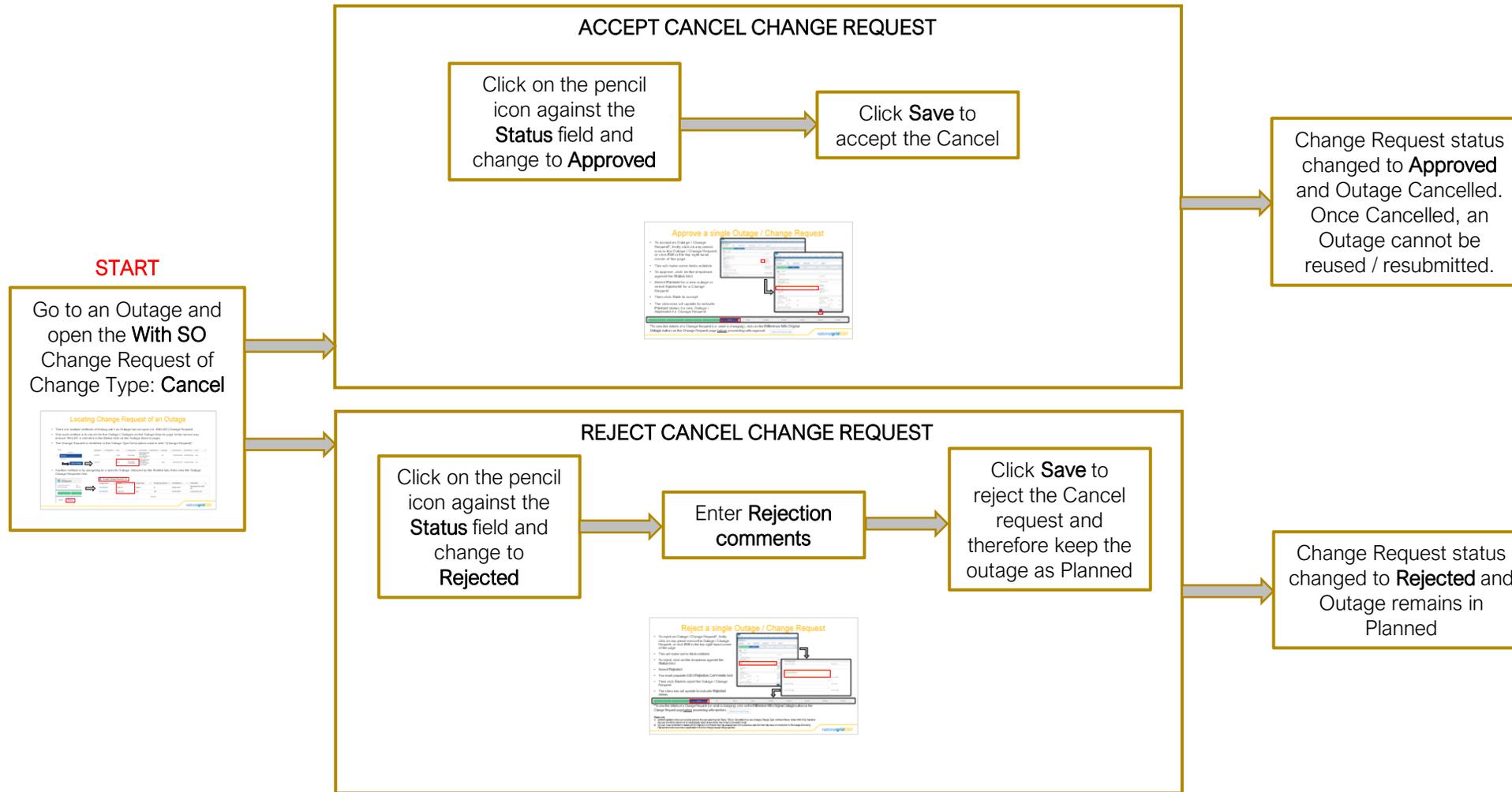
To use these outage change scenario process diagrams most effectively, start the slide show in Power Point. You can then click on the thumbnail pictures to see more detail on each process stage if you need to and click again to come back to this diagram.



\*Defect to note: Once an Outage has taken on Change Type: TBA, this cannot be changed back to Change Type: Update or to Change Type: Cancel when a Change Request is submitted. This will be fixed in ELS post go-live

# 3) Change Request to Cancel -> Outage Cancelled

To use these outage change scenario process diagrams most effectively, start the slide show in Power Point. You can then click on the thumbnail pictures to see more detail on each process stage if you need to and click again to come back to this diagram.



# 4) Marking an Outage as Not Taken

Go to the Outage in **Planned** status in SO view (only SO can change a Planned outage status currently)

Outage **ON-0008258**

Outage Request Description

Circuit Description ⓘ  
Currie 275/132kV SGT1

Status ⓘ  
Planned

Company Code ⓘ  
SP

Outage Type ⓘ  
Planned

Additional Description ⓘ

Basic Outage  
[ON-0004352](#)

Basic Outage Code  
CURR2H1

Change Type ⓘ  
Add



Outage Request Description

Circuit Description ⓘ  
Currie 275/132kV SGT1

Status ⓘ  
Not Taken

Company Code ⓘ  
SP

Additional Description ⓘ

Basic Outage  
ON-0004352

Basic Outage Code  
CURR2H1

Change Type ⓘ  
Add

Cancel Save

This field is calculated upon save

Change the Status to **Not Taken** and click **Save**.  
Once marked as Not Taken, the Outage can be reused by the TO or SO by moving to Initial then to With SO.



# 5) Starting a Planned Outage

Go to an Outage in **Planned** status in either SO or TO view

Outage **ON-0011921**

▼ Outage Dates

Planned Start Date/Time ⓘ 17/06/2021 12:00	Planned End Date/Time ⓘ 24/06/2021 12:00
<b>Actual Start Date/Time</b>	Actual End Date/Time
Planned Equipment Release Date/Time ⓘ	Permit For Work Date/Time ⓘ
Authorised Person Attendance Date/Time ⓘ	
Change Code 1 - New work identified in current year	Change Description ⓘ DELAY BY 1 DAY AGAIN to 17/04

**Actual Start Date/Time**

Date	Time
17/06/2021	11:45

Actual End Date/Time

Date	Time

Planned Equipment Release Date/Time ⓘ

Date	Time

Permit For Work Date/Time ⓘ

Date	Time

Cancel Save

Enter an Actual Start Date and Time in either SO or TO view then click **Save**. Once entered, the Outage Status will automatically move to **Started**



If the user wishes to set a **Started** Outage back to **Planned**, they must delete the **Actual Start Time & Date** and click **Save** (this may only be possible by a SO Super User – TBC)

# 6) Marking a Started Outage as Completed

Go to an Outage in **Started** status in either SO or TO view

Outage Dates	
Planned Start Date/Time ⓘ 17/06/2021 12:00	Planned End Date/Time ⓘ 24/06/2021 12:00
Actual Start Date/Time 17/06/2021 11:45	Actual End Date/Time
Planned Equipment Release Date/Time ⓘ	Permit For Work Date/Time ⓘ
Authorised Person Attendance Date/Time ⓘ	
Change Code 1 - New work identified in current year	Change Description ⓘ DELAY BY 1 DAY AGAIN to 17/04



Actual Start Date/Time	Actual End Date/Time
Date: 17/06/2021 Time: 11:45	Date: 24/06/2021 Time: 15:00
Planned Equipment Release Date/Time ⓘ	Permit For Work Date/Time ⓘ
Date: Time: [input]	Date: Time: [input]
[Cancel] [Save]	

Enter an Actual End Date and Time in either SO or TO view then click **Save**.  
Once entered, the Outage Status will automatically move to **Completed**



If the user wishes to set a **Completed** Outage back to **Started**, they must delete the **Actual End Time & Date** and click **Save** (this may only be possible by a SO Super User – TBC)