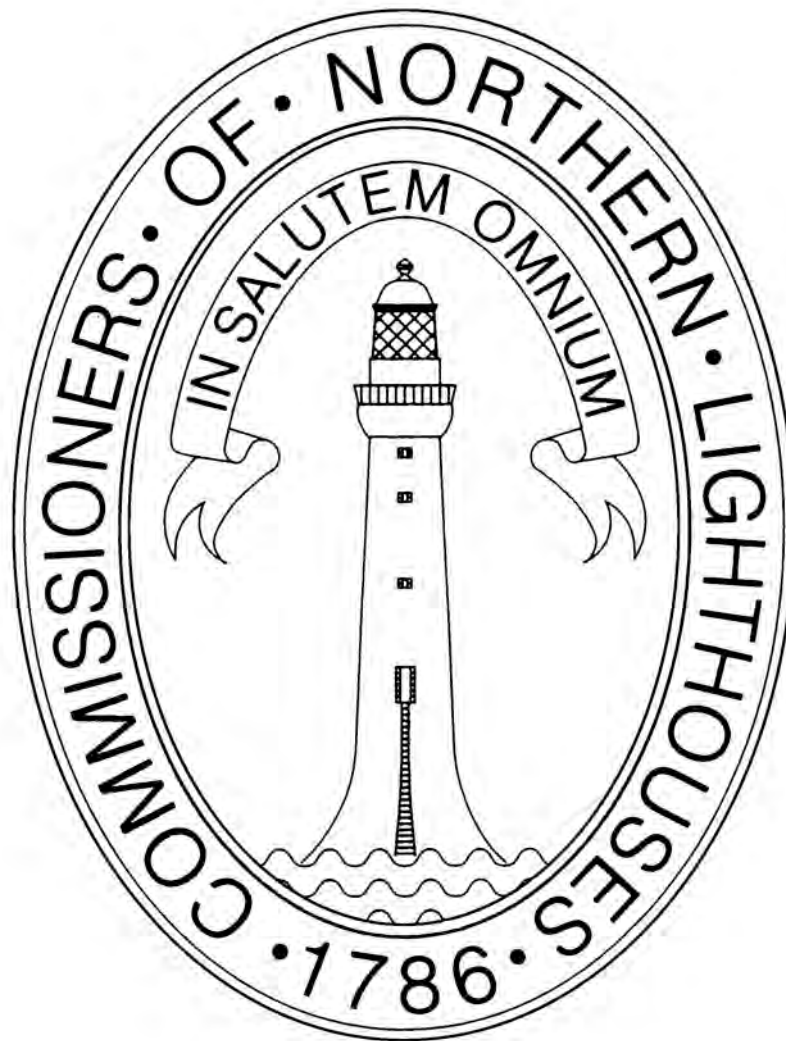


Northern Lighthouse Board



Aton Reporting Online Website

User Guide

Revision 3. December 2015

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1. Logging In

- The Website can be found at <http://nlbhq.nlb.org.uk/LatonsOnline>
- NLB administrators will issue Log-In credentials to approved Website users
- Please click on the 'Terms of Use' link and read the terms carefully before using the website.
- Enter your issued login credentials and click on the "Log in" button, as shown below

ATON REPORTING ONLINE

Having Problems? [Email Support](#) | Download the users guide [here](#)

About

Log In

Log In

Username: demouser

Password: [masked]

Log In

Click to log in

Forgotten your user name or password? [Click here](#)

By logging in you are accepting the [Terms of Use](#)

Contact Us

Northern Lighthouse Board, 84 George Street, Edinburgh, EH2 3DA, Tel: +44 131 4733100

- If you experience any problems logging in, use the 'Contact Us' button to Email the NLB Navigation Department. For address and phone number details, click on the 'About' button. The following screen will be displayed.

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Aton Applications Failure Reports Reports Log Out About

About

Northern Lighthouse Board, 84 George Street, Edinburgh, EH2 3DA, Tel: +44 131 4733100

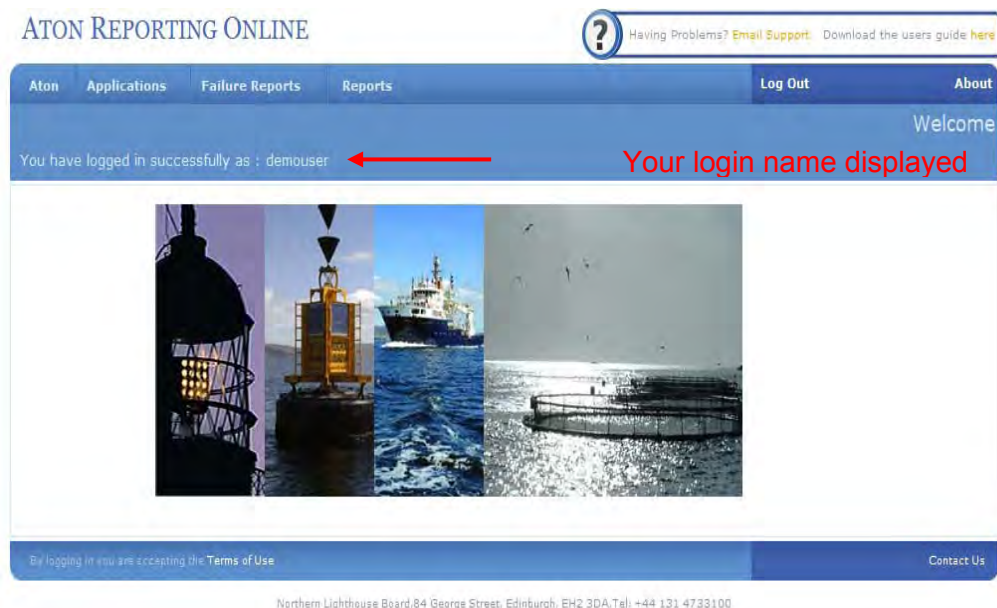
Email Us

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Contact Us

Northern Lighthouse Board, 84 George Street, Edinburgh, EH2 3DA, Tel: +44 131 4733100

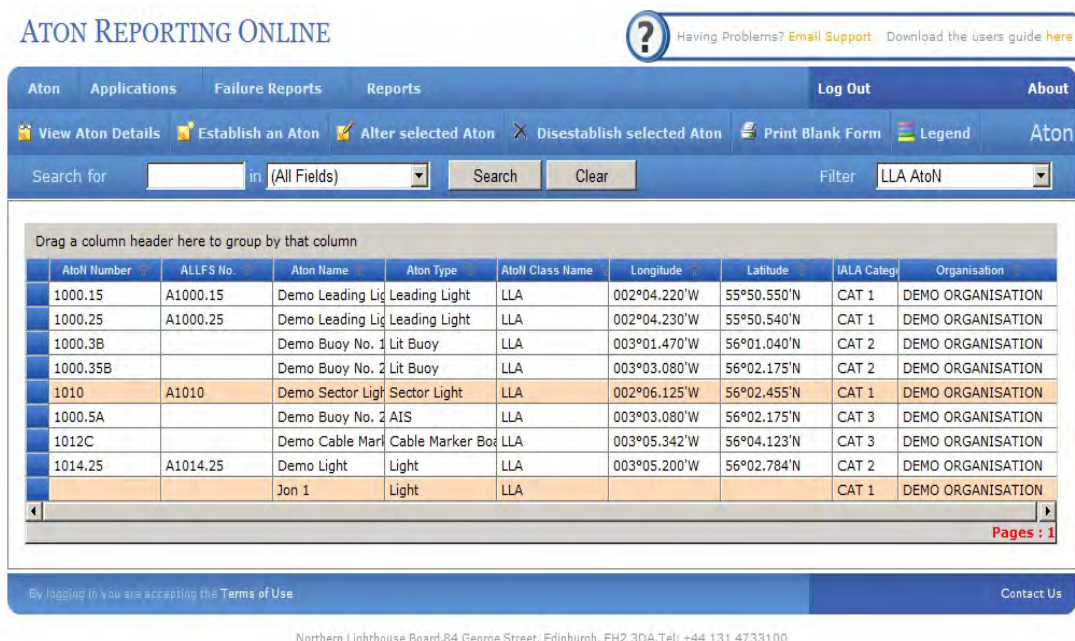
2. Exploring the Home Page



- All Aton Reporting Online functions are accessed using the top menu bar comprising 'Aton', 'Applications', 'Failure Reports', and 'Reports'
- To exit the site, click on 'Log Out'

3. The Aton Page

- Click on the 'Aton' button on the top menu bar.
- The 'Aton' page is displayed, listing all the AtoN records for the logged in user's organisation and any other organisation in the logged in user's organisation jurisdiction
- Use the 'Legend' button on the main menu to interpret the specific colours applied to the grid records.



4. The Aton Page – Working with Grid Records

- **Column width:**
Column Width is adjusted by hovering your cursor over the column divider and clicking and sliding to the preferred size.
- **Ordering Records**
Column order can be changed by clicking and dragging column headers to a new position
- **Sorting Records**
To sort the data on a selected column, click on the column header. To reverse the sort order, click on the same header again.
- **Grouping Records**
To group your records by a selected column, click on the column header and drag the column header into the grey space above the grid. In the illustrated example the selected column is 'IALA Category'.

ATON REPORTING ONLINE

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Aton Applications Failure Reports Reports Log Out About

View Aton Details Establish an Aton Alter selected Aton Disestablish selected Aton Print Blank Form Legend Aton

Search for in (All Fields) Search Clear Filter LLA Aton

Drag a column header here to group by that column

Click and Drag → IALA Category

Aton Number	ALLFS No.	Aton Name	Aton Type	Aton Class Name	Longitude	Latitude	IALA Category	Organisation
1010	A1010	Demo Sector Light	Sector Light	LLA	002°06.125'W	56°02.455'N	CAT 1	DEMO ORGANISA
		Jon 1	Light	LLA			CAT 1	DEMO ORGANISA
1000.15	A1000.15	Demo Leading Light	Leading Light	LLA	002°04.220'W	55°50.550'N	CAT 1	DEMO ORGANISA
1000.25	A1000.25	Demo Leading Light	Leading Light	LLA	002°04.230'W	55°50.540'N	CAT 1	DEMO ORGANISA
1014.25	A1014.25	Demo Light	Light	LLA	003°05.200'W	56°02.784'N	CAT 2	DEMO ORGANISA
1000.35B		Demo Buoy No. 2	Lit Buoy	LLA	003°03.080'W	56°02.175'N	CAT 2	DEMO ORGANISA
1000.3B		Demo Buoy No. 1	Lit Buoy	LLA	003°01.470'W	56°01.040'N	CAT 2	DEMO ORGANISA
1012C		Demo Cable Marker	Cable Marker Bo	LLA	003°05.342'W	56°04.123'N	CAT 3	DEMO ORGANISA
1000.5A		Demo Buoy No. 2	AIS	LLA	003°03.080'W	56°02.175'N	CAT 3	DEMO ORGANISA

Pages : 1

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- The image below shows the Aton grid list grouped by IALA Category.

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Aton Applications Failure Reports Reports Log Out About

View Aton Details Establish an Aton Alter selected Aton Disestablish selected Aton Print Blank Form Legend Aton

Search for in (All Fields) Search Clear Filter LLA Aton

IALA Category

- IALA Category : CAT 1 (4)
- IALA Category : CAT 2 (3)
- IALA Category : CAT 3 (2)

Pages : 1

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- Click on the '+' icon on each grouping to expand the group and show individual Aton records

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Aton Applications Failure Reports Reports Log Out About

View Aton Details Establish an Aton Alter selected Aton Disestablish selected Aton Print Blank Form Legend Aton

Search for in (All Fields) Search Clear Filter LLA Aton

IALA Category

IALA Category - CAT 1 (4)

Aton Number	ALLFS No.	Aton Name	Aton Type	Aton Class Name	Longitude	Latitude	Organisation
1010	A1010	Demo Sector Light	Sector Light	LLA	002°06.125'W	56°02.455'N	DEMO ORGANISA
		Jon 1	Light	LLA			DEMO ORGANISA
1000.15	A1000.15	Demo Leading Light	Leading Light	LLA	002°04.220'W	55°50.550'N	DEMO ORGANISA
1000.25	A1000.25	Demo Leading Light	Leading Light	LLA	002°04.230'W	55°50.540'N	DEMO ORGANISA

IALA Category - CAT 2 (3)

IALA Category - CAT 3 (2)

Pages: 1

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- Filtering Records**

Users can filter Aton records to create specific data views. Click on the filter funnel icon on a column header to display all the available filtering options for that column

Aton Applications Failure Reports Reports

View Aton Details Establish an Aton Alter selected Aton Disestablish selected Aton

Search for in (All Fields) Search Clear

Drag a column header here to group by that column

Aton Number	ALLFS No.	Aton Name	Aton Type	Aton Class Name
1000.15	A1000.15	Demo Leading Light	Leading Light	LLA
1000.25	A1000.25	Demo Leading Light	Leading Light	LLA

- A list of all values that the column can be filtered on is displayed. Select the value required and the grid will display only records containing the selected value. In the following example, Aton Type 'Leading Light' is selected.

Aton Applications Failure Reports Reports

View Aton Details Establish an Aton Alter selected Aton Disestablish selected Aton

Search for in (All Fields) Search Clear

Drag a column header here to group by that column

AtoN Number	ALLFS No.	Aton Name	Aton Type	AtoN Class Name	Longitude
1000.15	A1000.15	Demo Leading Lig	(All)		002°04.220'W
1000.25	A1000.25	Demo Leading Lig	(Empty)		002°04.230'W
1000.3B		Demo Buoy No. 1	(NonEmpty)		003°01.470'W
1000.35B		Demo Buoy No. 2	Leading Light		003°03.080'W
1000.5A		Demo Buoy No. 2	Lit Buoy		003°03.080'W
1012C		Demo Cable Mark	AIS		003°05.342'W
1014.25	A1014.25	Demo Light	Cable Marker Board		003°05.200'W
1010	A1010	Demo Sector Light	Light		002°06.125'W
		Jon 1	Sector Light		
			Light	LLA	

← Select

- The grid displays a list of filtered Aton records of type 'Leading Light' only.

Aton Applications Failure Reports Reports Log Out About

View Aton Details Establish an Aton Alter selected Aton Disestablish selected Aton Print Blank Form Legend Aton

Search for in (All Fields) Search Clear Filter LLA AtoN

Drag a column header here to group by that column

AtoN Number	ALLFS No.	Aton Name	Aton Type	AtoN Class Name	Longitude	Latitude	IALA Category	Organisation
1000.15	A1000.15	Demo Leading Lig	Leading Light	LLA	002°04.220'W	55°50.550'N	CAT 1	DEMO ORGANISA
1000.25	A1000.25	Demo Leading Lig	Leading Light	LLA	002°04.230'W	55°50.540'N	CAT 1	DEMO ORGANISA

Pages : 1

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- **Grid Searches:**

Users can use the 'Search' function to locate specific records in the grid. Enter your search criteria text in the 'Search For' field, then select the column in which to search from the 'In' drop list. The default is 'All Fields' so the search will apply to all fields in the grid if left at the default.

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Aton Applications Failure Reports Reports Log Out About

View Aton Details Establish an Aton Alter selected Aton Disestablish selected Aton Print Blank Form Legend Aton

Search for Lit Buoy in (All Fields) Search Clear Filter LLA AtoN

Drag a column header here to group

AtoN Number	ALLFS No.	Aton Name	Aton Type	AtoN Class Name	Longitude	Latitude	IALA Category	Organisation
1000.15	A1000.15	Demo Buoy No. 1	Lit Buoy	LLA	002°04.220'W	55°50.530'N	CAT 1	DEMO ORGANISA
1000.25	A1000.25	Demo Light	Light	LLA	002°04.230'W	55°50.540'N	CAT 1	DEMO ORGANISA
1000.3B		Demo Buoy No. 2	Lit Buoy	LLA	003°01.470'W	56°01.040'N	CAT 2	DEMO ORGANISA
1000.35B		Demo Buoy No. 2	Lit Buoy	LLA	003°03.080'W	56°02.175'N	CAT 2	DEMO ORGANISA
1000.5A		Demo Cable Marker	Cable Marker Box	LLA	003°03.080'W	56°02.175'N	CAT 3	DEMO ORGANISA
1012C		Demo Cable Marker	Cable Marker Box	LLA	003°05.342'W	56°04.123'N	CAT 3	DEMO ORGANISA
1014.25	A1014.25	Demo Light	Light	LLA	003°05.200'W	56°02.784'N	CAT 2	DEMO ORGANISA
1010	A1010	Demo Sector Light	Sector Light	LLA	002°06.125'W	56°02.455'N	CAT 1	DEMO ORGANISA
		Jon 1	Light	LLA			CAT 1	DEMO ORGANISA

Pages : 1

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- The search has returned all records of Aton Type 'Lit Buoy'

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Aton Applications Failure Reports Reports Log Out About

View Aton Details Establish an Aton Alter selected Aton Disestablish selected Aton Print Blank Form Legend Aton

Search for Lit Buoy in (All Fields) Search Clear Filter LLA AtoN

Drag a column header here to group by that column

AtoN Number	ALLFS No.	Aton Name	Aton Type	AtoN Class Name	Longitude	Latitude	IALA Category	Organisation
1000.3B		Demo Buoy No. 1	Lit Buoy	LLA	003°01.470'W	56°01.040'N	CAT 2	DEMO ORGANISA
1000.35B		Demo Buoy No. 2	Lit Buoy	LLA	003°03.080'W	56°02.175'N	CAT 2	DEMO ORGANISA

Pages : 1

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5. View an Aton Record

- To view details of your Aton, either double click on an Aton record in the grid, or highlight an Aton record in the grid and click the 'View Aton Details' button.
- Details of the selected Aton are displayed in 'Read Only' format.
- Note: a 'Save' button exists as NLB administrators can use this system if required and have escalated permissions to edit records. This is not available to standard users
- To close the Details page, use the 'Cancel' button or navigate to a different page.

ATON REPORTING ONLINE

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Aton Applications Failure Reports Reports Log Out About

Aton Details

Aton Name: Demo Leading Lights, 241Deg, Rear

Aton Number: 1000.25 ALLFS No.: A1000.25

Aton Class Name: LLA IALA Category: CAT 1

Organisation: DEMO ORGANISATION Locality: Firth of Forth

Aton Type: Leading Light Aton Sub Type: None

Latitude: 55°50.540'N Longitude: 002°04.230'W

Attributes

Save Cancel

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- Note that all Aton records contain 'Attributes'. These are hidden by default, and can be viewed by expanding the form using the arrow icon indicated below

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Aton Applications Failure Reports Reports Log Out About

Aton Details

Aton Name: Demo Leading Lights, 241Deg, Rear

Aton Number: 1000.25 ALLFS No.: A1000.25

Aton Class Name: LLA IALA Category: CAT 1

Organisation: DEMO ORGANISATION Locality: Firth of Forth

Aton Type: Leading Light Aton Sub Type: None

Latitude: 55°50.540'N Longitude: 002°04.230'W

Attributes

Light Character: F G Description of Light Structure:

Leading Line: 241 Nominal Range: 10.00

Height of Structure: 24 Height of Light above MHWS: 32

Reason:

Save Cancel

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Expand/Collapse

6. Application to establish an Aton

- Aton Reporting Online allows users to apply online to establish a new Aid to Navigation.
- To create an application for a new Aton, click on the 'Aton' button to open the Aton page, then the 'Establish an Aton' button. The following page is displayed.

The screenshot shows the 'ATON REPORTING ONLINE' web application. At the top, there is a navigation bar with links: 'Aton', 'Applications', 'Failure Reports', 'Reports', 'Log Out', and 'About'. A help icon with a question mark is also present, with links for 'Having Problems? Email Support' and 'Download the users guide here'. The main content area is titled 'Aton Details' and contains several input fields and dropdown menus. The fields are: 'Aton Name' (text box), 'Aton Number' (text box), 'ALLFS No.' (text box), 'Aton Class Name' (dropdown menu with 'Select One'), 'IALA Category' (dropdown menu with 'Select One'), 'Organisation' (dropdown menu with 'Select Aton Class First'), 'Locality' (dropdown menu with 'Select One'), 'Aton Type' (dropdown menu with 'Select One'), 'Aton Sub Type' (dropdown menu with 'Select Aton Type First'), 'Latitude' (text box), and 'Longitude' (text box). Below these fields is a section titled 'Attributes' with a sub-section 'Application Details'. This section contains 'Application Date' (displaying '29/09/2011') and 'Application Type' (displaying 'Application for Establishment'). Below this is a 'Reason for Application' text area. At the bottom of the form are 'Save' and 'Cancel' buttons. The footer of the page contains a disclaimer: 'By logging in you are accepting the Terms of Use.' and a 'Contact Us' link.

- Complete the application form, noting that some fields need to be selected before others in order to populate some of the drop lists on the form
- Also note that as you populate certain fields, other fields will appear depending on your selections.
- Once you have completed the form, click the 'Save' button.
- Your application will be saved to the NLB database and will be processed by NLB Navigation department staff.

7. Application to alter an Aton

- Aton Reporting Online allows users to apply online to alter an existing Aid to Navigation.
- To create an application to alter an existing Aton, click on the 'Aton' button to open the Aton page, then select the Aton you wish to alter in the grid and click on the 'Alter selected Aton' button. The following page is displayed.

The screenshot shows the 'Aton Reporting Online' web application. At the top, there is a navigation bar with links: Aton, Applications, Failure Reports, Reports, Log Out, and About. A help icon with a question mark is also present, with links for 'Having Problems? Email Support' and 'Download the users guide here'. The main form is titled 'Aton Details' and contains several input fields and dropdown menus. The fields are: Aton Name (text box with 'Demo Leading Lights, 241Deg. Rear'), Aton Number (text box with '1000.25'), ALLFS No. (text box with 'A1000.25'), Aton Class Name (dropdown menu with 'LLA'), IALA Category (dropdown menu with 'CAT 1'), Organisation (dropdown menu with 'DEMO ORGANISATION'), Locality (dropdown menu with 'Firth of Forth'), Aton Type (dropdown menu with 'Leading Light'), Aton Sub-Type (dropdown menu with 'None'), Latitude (text box with '55°50.540N'), and Longitude (text box with '002°04.230W'). Below these fields is a section titled 'Attributes' with a sub-section 'Application Details' showing 'Application Date: 29/09/2011 15:46:09' and 'Application Type: Application for Alteration'. There is a large text box for 'Enter a descriptive text of the Aton changes that you require here.' and two buttons at the bottom: 'Save' and 'Cancel'. At the very bottom of the page, there is a footer with the text 'By logging in you are accepting the Terms of Use' and a 'Contact Us' link. Below the footer, there is a small line of text: 'Northern Lighthouse Board, 84 George Street, Edinburgh, EH2 3DA, Tel: +44 131 4733100'.

- Note that all the fields on this form are 'Read Only'
- Enter the details of the proposed alteration in the text box and click 'Save'
- Your application will be saved to the NLB database and will be processed by NLB Navigation department staff.

8. Application to discontinue an Aton

- An Application to Discontinue and Aton is exactly the same as making an application to alter.
- Select the Aton to be discontinued in the grid and click on the 'Disestablish selected Aton' button.
- Complete the textbox giving the reason for discontinuing the Aton, then click 'Save'
- Your application will be saved to the NLB database and will be processed by NLB Navigation department staff.

9. Print a blank application form to Establish/Alter an Aton

- This feature allows users to print a blank form for manual application to Establish or Alter and Aton.
- Click on the 'Print Blank Form' button to print the blank application document, then complete the form and send it to the Northern Lighthouse Board. The address can be found by clicking on the 'About' button on the home page.

10.Applications

- The Aton Reporting Online system allows users to view all Applications made by their organisation to establish, alter or discontinue aids to navigation.
- Use the 'Legend' button on the main menu to interpret the specific colours applied to the grid records.

ATON REPORTING ONLINE

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Aton Applications Failure Reports Reports Log Out About

View the Application Show Legend Applications

Drag a column header here to group by that column

AtoN Number	AtoN All Number	AtoN Name	Aton Application Sta	PortAreaName	Aton Type	Sector Range	Character	Sectors
1000.4B		Demo Buoy No. 2	Application to Dis	Firth of Forth	Unlit Buoy			
		Jon 1	Application to Alti	Johnshaven	Light			
1010	A1010	Demo Sector Lig	Application to Alti	Fisherrow	Sector Light	W8; R6; G6	Iso WRG 8s	R104-120(16); W
1014.25	A1014.25	Demo Light	Application to Est	Firth of Forth	Light	4	Fl G 3s	
1012C		Demo Cable Mar	Application to Est	Firth of Forth	Cable Marker Box		Fl Y 5s	
1000.5A		Demo Buoy No. 2	Application to Est	Firth of Forth	AIS			
1000.3B		Demo Buoy No. 2	Application to Est	Firth of Forth	Lit Buoy		Q R	
1000.35B		Demo Buoy No. 2	Application to Est	Firth of Forth	Lit Buoy		Fl Y 5s	
1000.15	A1000.15	Demo Leading Lig	Application to Est	Firth of Forth	Leading Light		F G	
1000.25	A1000.25	Demo Leading Lig	Application to Est	Firth of Forth	Leading Light		F G	
		DA 12 - Harbour	Application to Dis	Firth of Forth	Unlit Buoy		Unlit	
		DA 11 - Harbour	Application to Dis	Firth of Forth	Leading Light		Iso R 4s (Synche	
		DA 10 - Harbour	Application to Dis	Firth of Forth	Leading Light		Iso R 4s	
		DA 13 - Harbour	Application to Dis	Firth of Forth	Unlit Buoy		Unlit	

- To view application record details, either double click on a selected grid record, or highlight the record and click the 'View the Application' button.
- Applications are displayed 'Read Only' and cannot be edited.

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Aton Applications Failure Reports Reports Log Out About

Aton Details

Aton Name: Demo Light

AtoN Number: 1014.25 ALLFS No.: A1014.25

AtoN Class Name: LLA IALA Category: CAT 2

Organisation: DEMO ORGANISATION Locality: Firth of Forth

Aton Type: Light Aton Sub Type: None

Latitude: 56°02.784'N Longitude: 003°05.200'W

Attributes

Light Character: Fl G 3s Description of Light Structure:

Height of Structure: 8 Nominal Range: 4.00

Height of Light above MHWS: 10

Reason: Occasional

Application Details

Application Date: 30/09/2011 11:43:41 Application Type: Application for Establishment

Reason for Application:

Setup By System Administrator

Save Cancel

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11.Failure Reports

- View Failure Reports

To view all failure logged against the logged in user's organisation, select 'Failure Reports' from the top menu bar.

To view individual failure records, either double click on a selected grid record, or highlight the record and click the 'View Report' button.

ATON REPORTING ONLINE

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Aton Applications Failure Reports Reports Log Out About

View Report New Report Delete Report Failure Reports

Search for in (All Fields) Search Clear

Drag a column header here to group by that column

ALLFS No.	Aton Name	Date Failed	Date Restored	Failure Reason	Created By
Jon 1		21/10/2010 12:00:00	25/10/2010 13:00:00	Out of Position	demouser
DA 09 - Harbour Approach		05/06/2009 08:00:00	07/06/2009 16:00:00	Irregular	Archie Johnstone
DA 05 - Channel Port Buoy		04/06/2009 08:00:00	06/06/2009 16:00:00	Out of Position	Archie Johnstone
DA 08 - Harbour Approach		04/06/2009 00:00:00	06/06/2009 00:00:00	Out of Position	Archie Johnstone
DA 01 - Headland Spit		22/05/2009 08:00:00	23/05/2009 16:00:00	Daymark/Topmark	Archie Johnstone
DA 01 - Headland Spit		01/05/2009 08:00:00	03/05/2009 16:00:00	Daymark/Topmark	Archie Johnstone
DA 11 - Harbour Lead (Fro		09/10/2008 12:00:00	30/09/2009 12:00:00	Out of Position	demouser

Pages: 1

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- Log a new Failure Report

To open the New Report form, click on the 'New Report' button.

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Aton Applications Failure Reports Reports Log Out About

View Report New Report Delete Report Failure Reports

LLA Organisation DEMO ORGANISATION

Aton Demo Buoy No. 1

Report reason Extinguished

Failure Time 30/09/2011 11:53

Restore Time 00:00

Status

Comment

Save Cancel

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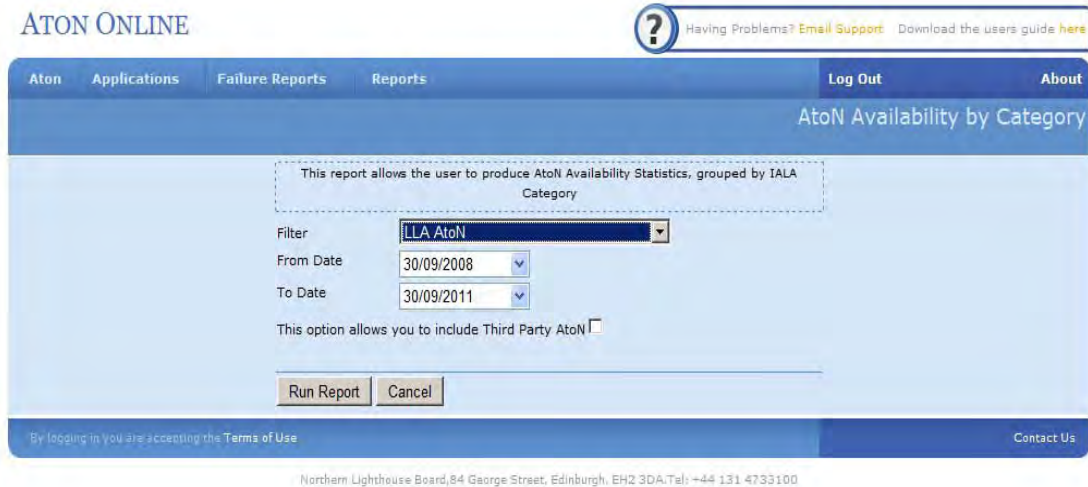
- Note that the Organisation field is automatically set to the logged in user's organisation.
- A failure record can be cumulative, i.e the record can be created, saved and edited as required. Cumulative notes can be added to track progress on repair.
- A failure record cannot be approved by NLB until a restored time is logged.
- Records added in error (eg duplicates) can be deleted by the user provided they have not been approved by NLB
- Once approved, the record can no longer be edited or deleted.

12. Reports

- Aton Reporting Online provides seven fixed parameterised reports.
- To access the reports, click on the 'Reports' button on the top menu bar.




- To run a report, either double click on a selected grid record, or highlight the record and click the 'Run the selected Report' button
- This guide provides one example of running a report. The selected report is 'Aton Availability by Category'
- The following criteria screen is displayed.



- The 'Filter' field displays the selected Organisation type, for example LLA, GLA, Offshore, Aquaculture. Normally a logged in user belongs to only one type of organisation, thus this field is pre set.
- The Date Range is set to a default of three years back from the current date to conform to statutory reporting requirements, however, the date range can be set by the user as required for the report.
- The report includes an option to include/exclude any third party Aton under the logged in organisation's jurisdiction.
- Click 'Run Report' to view the report.

1 of 1 100% Find | Next: Select a format Export



Aton Availability By Category


IALA Category	No Of Aids	Total Hours	No Of Failures	OOS Hours	MTTR	MTBF	Availability	Target Availability
DEMO ORGANISATION								
CAT 1	4	64,260	1	97:00	24:15	64260:00	99.91 %	99.80 %
CAT 2	3	35,172	0	0:00	0:00	0:00	100.00 %	99.00 %
CAT 3	2	18,816	0	0:00	0:00	0:00	100.00 %	97.00 %
No Category	0	0	0	0:00	0:00	0:00	0.00 %	0.00 %
Totals	9							

Criteria:
 Date Range from [30/09/2008 to 30/09/2011]
 Third party Organisations are not included.
 Organisations [DEMO ORGANISATION]
 Filter [LLA AtoN]
 User [demouser] belonging to Organisation(s) [DEMO ORGANISATION]

1 of 1 OOS Hours = Out of Service Hours, MTTR = Mean Time to Repair, MTBF = Mean Time Between Failures 30/09/2011 12:16:52

- The report data can be exported to another format such as Microsoft Excel. Select your preferred format from the 'Export' drop list.
-

1 of 1 100% Find | Next: Select a format Export



Aton Availability By Category

Select a format
 XML file with report data
 CSV (comma delimited)
 TIFF file
 Acrobat (PDF) file
 Web archive
Excel

IALA Category	No Of Aids	Total Hours	No Of Failures	OOS Hours	MTTR	MTBF	Availability	Target Availability
DEMO ORGANISATION								
CAT 1	4	64,260	1	97:00	24:15	64260:00	99.91 %	99.80 %
CAT 2	3	35,172	0	0:00	0:00	0:00	100.00 %	99.00 %
CAT 3	2	18,816	0	0:00	0:00	0:00	100.00 %	97.00 %
No Category	0	0	0	0:00	0:00	0:00	0.00 %	0.00 %
Totals	9							

Criteria:
 Date Range from [30/09/2008 to 30/09/2011]
 Third party Organisations are not included.
 Organisations [DEMO ORGANISATION]
 Filter [LLA AtoN]
 User [demouser] belonging to Organisation(s) [DEMO ORGANISATION]

1 of 1 OOS Hours = Out of Service Hours, MTTR = Mean Time to Repair, MTBF = Mean Time Between Failures 30/09/2011 12:16:52

- Your data will be exported to an excel document at selected location on your PC.

13.NLB Navigation Support

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Edinburgh
EH2 3DA

NLB Navigation Support.
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Email: Navigation@NLB.org.uk