

breez75X

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breez75X Introduction

Before running breez75X software, the following directories must be set up correctly.

A local drive on your computer should contain a folder labeled breez75X (For example, C:\breez75X). The breez75X folder should contain a subfolder for each 40CFR75 unit at your site.

Each Unit folder should contain a folder named Official Data. This folder should store the final quarterly emissions XML file that was submitted and accepted by the EPA. There must be one and only one emissions file in this folder for each previous quarter dating back to the certification date.

The Unit folder should also contain a Work subfolder for each quarter, named with the year and quarter (For example, C:\breez75X\Unit 1\Work 2008Q1). Each Work folder will contain the following subfolders:

- Candidate Files
- ECMPS Results
- Logs

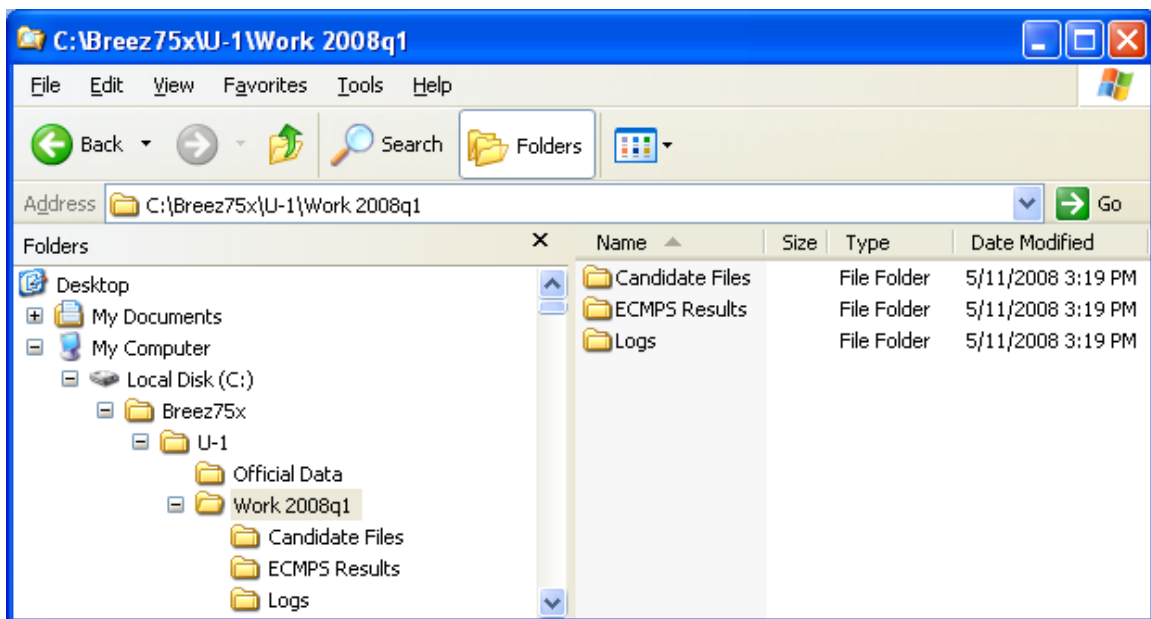
Each time you create a QA or Emissions file using breez75X, the file is put in the Candidate Files subfolder under the Work folder for the appropriate year and quarter.

breez75X

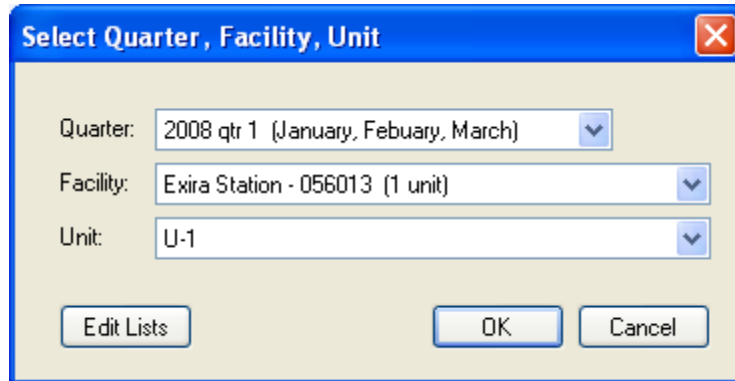
The ECMP5 Results folder is a place for you to store Evaluation and Feedback Reports from the ECMP5 Client Tool.

There is also a folder called Logs under each Work folder. Each time you generate a QA or Emissions file using breez75X, a log file is created and placed in the Logs folder. These log files are used for troubleshooting purposes in the event that a QA or Emissions file is not successfully created.

The following illustrates how the folders should be set up on your local drive.



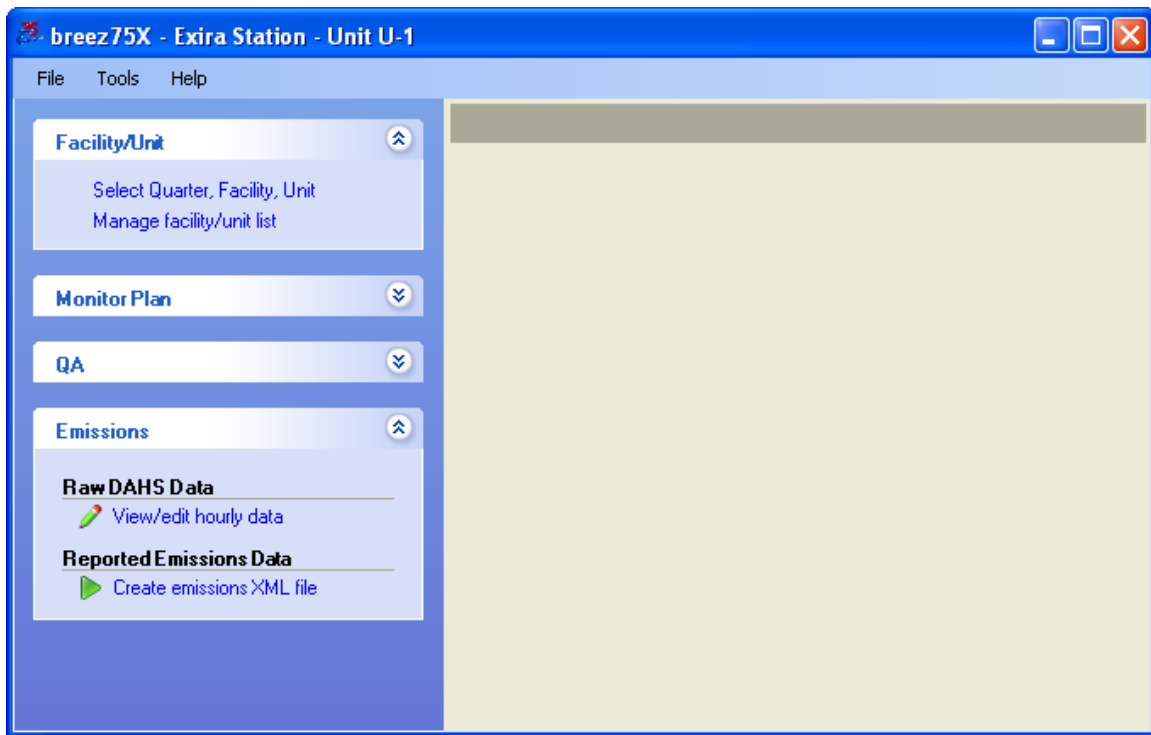
To open the breez75X software, click on the icon on your desktop or click **Start > All Programs > breez75X by CiSCO**.



A select window opens. Use the pull-down menus to select a Quarter, Facility and Unit.

breez75X

Click **[OK]**.



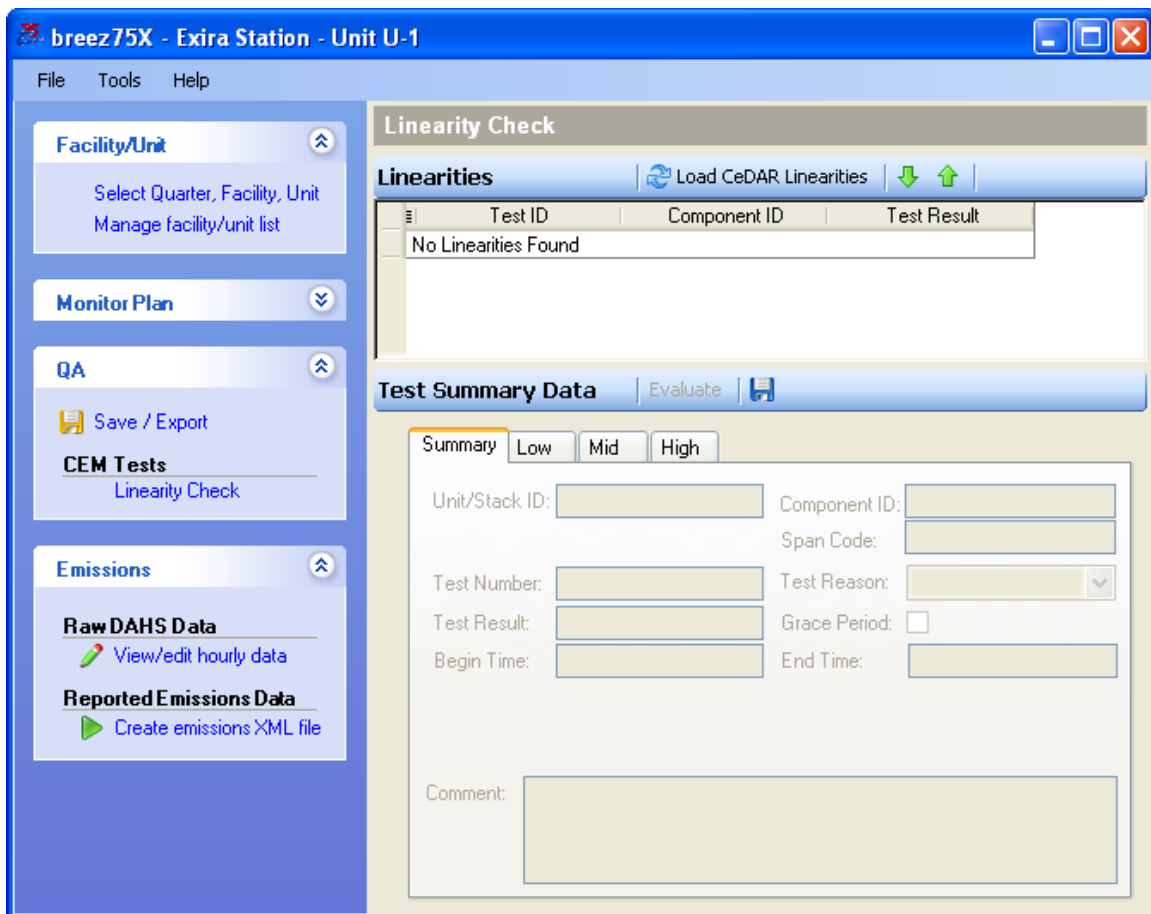
Use the items on the task panel to make a selection. The following options appear on the task panel.

- Facility/Unit
- Monitor Plan
- QA
- Emissions

We will discuss these options individually.

QA

To view, edit, or evaluate a linearity check click Linearity Check under the QA option on the task panel.



The main linearity window is displayed.

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Click **[Load CeDAR Linearities]**.

The screenshot shows the 'breez75X - Exira Station - Unit U-1' application window. The interface is divided into a left sidebar and a main content area. The sidebar contains sections for 'Facility/Unit', 'Monitor Plan', 'QA', 'CEM Tests', and 'Emissions'. The main content area is titled 'Linearity Check' and features a 'Load CeDAR Linearities' button with up and down arrow icons. Below this is a table with three columns: 'Test ID', 'Component ID', and 'Test Result'. The table contains three rows of data. Below the table is a 'Test Summary Data' section with an 'Evaluate' button and a save icon. This section includes tabs for 'Summary', 'Low', 'Mid', and 'High'. The 'Summary' tab is active, showing fields for Unit/Stack ID, Component ID, Span Code, Test Number, Test Reason, Test Result, Grace Period, Begin Time, and End Time. A 'Comment' field is also present at the bottom.



Test ID	Component ID	Test Result
110-LINL08030612	110	PASSED
110-LINH08030612	110	PASSED
120-LINH08030613	120	PASSED


Test Summary Data

Summary Low Mid High

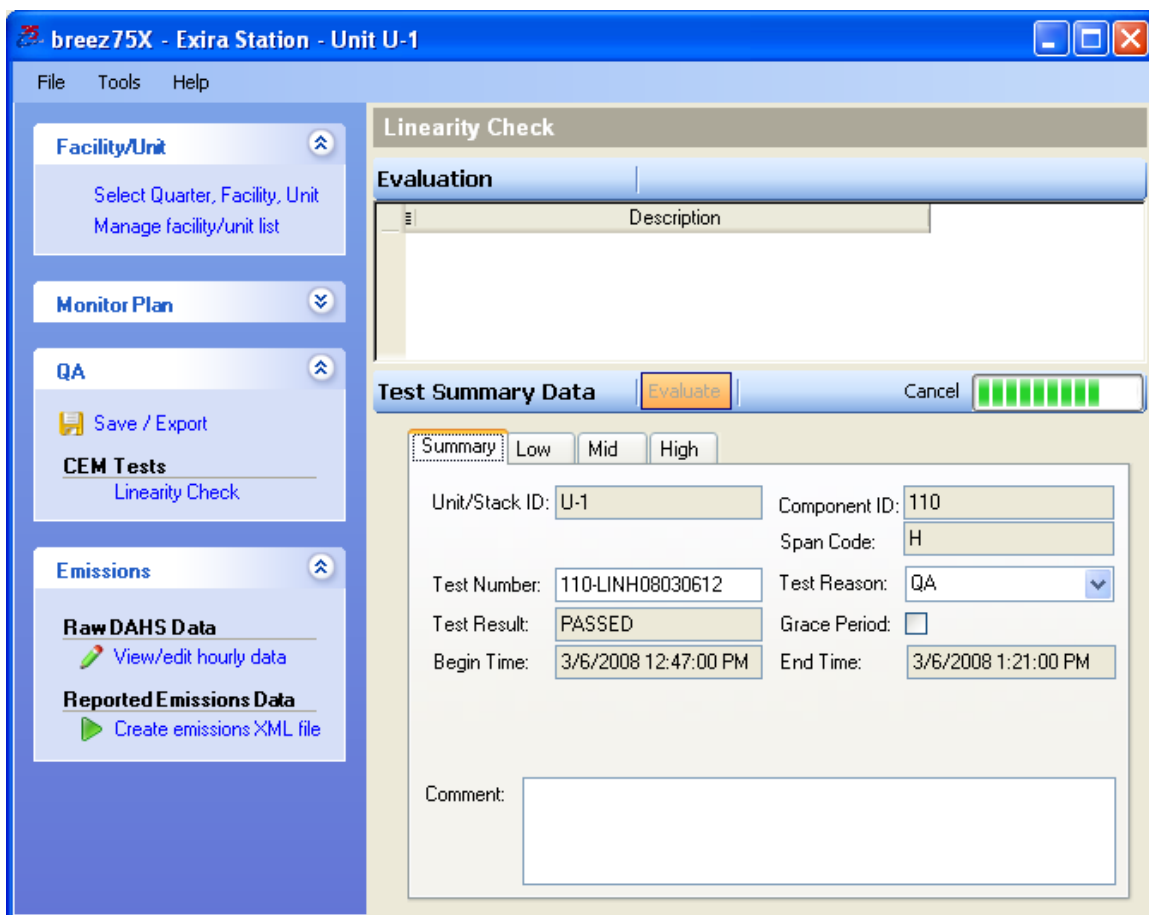
Unit/Stack ID: U-1 Component ID: 110
Span Code: L
Test Number: 110-LINL08030612 Test Reason: QA
Test Result: PASSED Grace Period:
Begin Time: 3/6/2008 12:05:00 PM End Time: 3/6/2008 12:40:00 PM

Comment:

The linearities for the selected quarter and unit appear in the top portion of the window. Use  to skip to the next linearity. Use  to skip to the previous linearity. Or highlight the linearity that you wish to view, edit, or evaluate. The data for the linearity is displayed in the bottom portion of the window.

To edit linearity data, click in an open field and type in a new value or use the pull-down menus. Click  to save the changes.

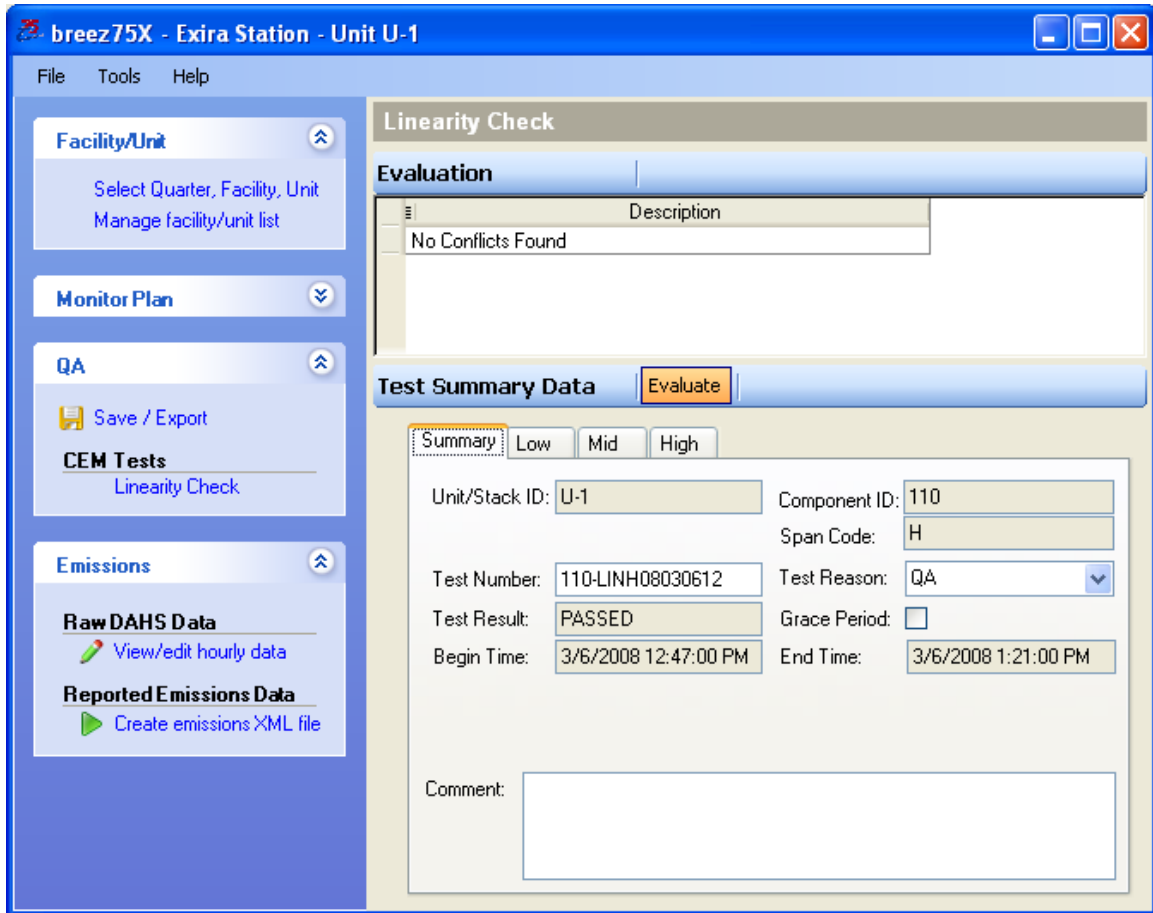
You should evaluate a linearity after you have edited it or before you export a linearity check into an XML file. To evaluate a linearity, click **[Evaluate]**.



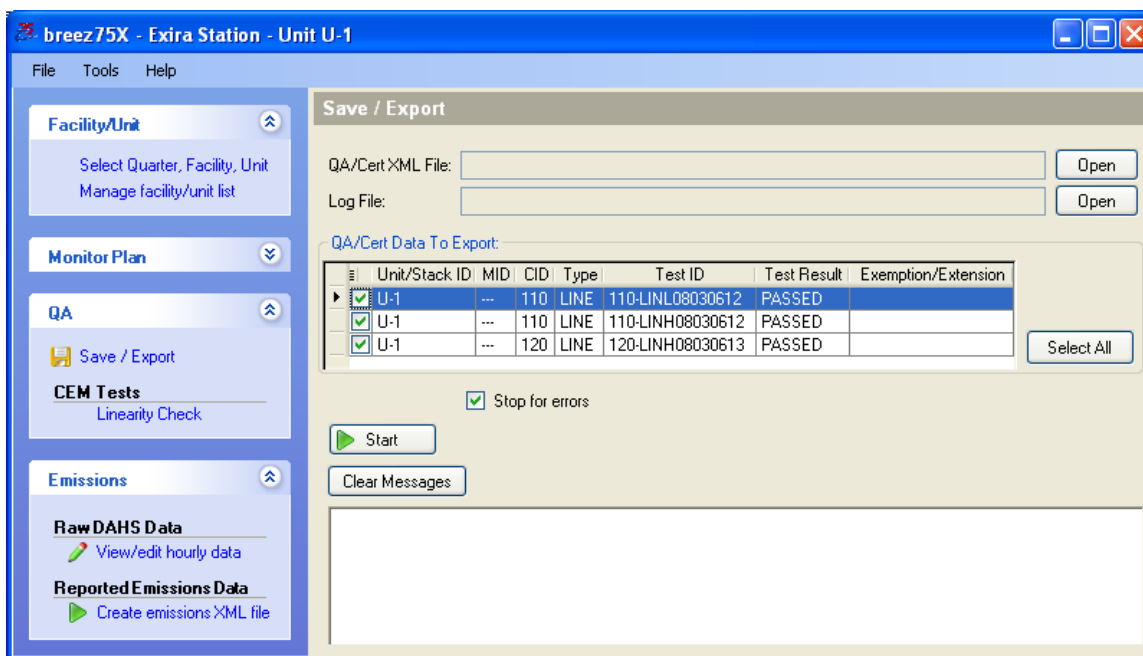
The screenshot shows the 'breez75X - Exira Station - Unit U-1' application window. The interface is divided into a left sidebar and a main content area. The sidebar contains several sections: 'Facility/Unit' with a 'Select Quarter, Facility, Unit Manage facility/unit list' button; 'Monitor Plan' with a dropdown arrow; 'QA' with a 'Save / Export' button and a 'Linearity Check' link under 'CEM Tests'; and 'Emissions' with 'View/edit hourly data' and 'Create emissions XML file' options. The main content area is titled 'Linearity Check' and has an 'Evaluation' tab selected. Below the tab is a table with a 'Description' header. At the bottom of the main area, there is a 'Test Summary Data' section with an 'Evaluate' button and a 'Cancel' button. The 'Test Summary Data' section includes a 'Summary' tab and three sub-tabs: 'Low', 'Mid', and 'High'. The 'Summary' tab is active, showing the following data: Unit/Stack ID: U-1, Component ID: 110, Span Code: H, Test Number: 110-LINH08030612, Test Reason: QA, Test Result: PASSED, Grace Period: , Begin Time: 3/6/2008 12:47:00 PM, End Time: 3/6/2008 1:21:00 PM, and a 'Comment:' field.

breez75X begins an evaluation of the linearity that you selected. Click **[Cancel]** to end the evaluation.

When the software has finished the evaluation, the results are displayed in the top portion of the window.



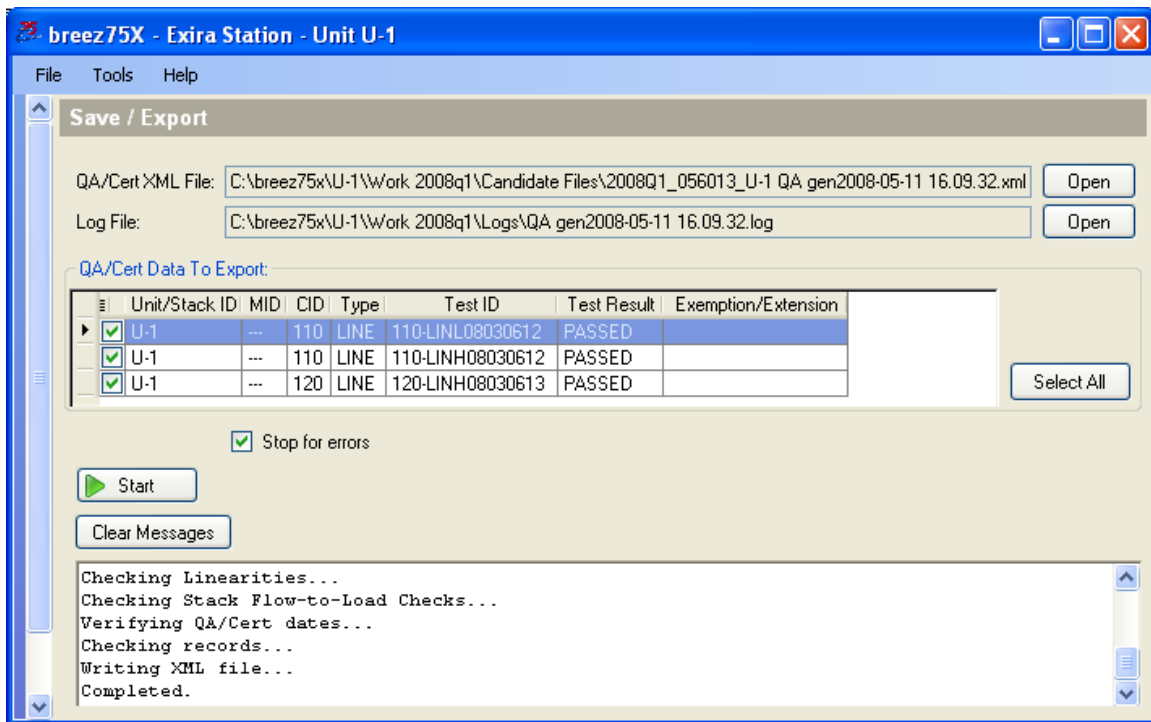
To create an XML file for a linearity, click **Save / Export**.



Select the linearities that you wish to export.

breez75X

Click **[Start]**.



The linearity XML file is placed in the Candidate Data folder in the appropriate Work folder. The file is named with the year and quarter, the facility ORIS code, unit name, QA (indicating that this is QA data), and the date and time the file was generated.

Emissions

Emissions allows you to view and edit hourly data and create quarterly emissions files in XML format.

You should check your hourly data and resolve any data conflicts before creating your quarterly emission file. To check or edit hourly data, click **View/Edit hourly data**.

The screenshot shows the 'breez75X - Exira Station - Unit U-1' application window. The main area displays 'View/edit hourly data' with a table of hourly emissions data. The table includes columns for TimeStamp, Unit On-Time (hours), Unit Load (MW), NOx ppm, NOx ppm Mon Code, NOx Rate CID, NOx Rate MID, NOx Rate Bias, O2% Mon Code, O2% CID, and Gas (PNG) On-Time (hours). The data rows show hourly values for 2008/03/06 from 7 AM to 4 PM. Row 124 is highlighted in red, indicating a conflict. Below the table, a 'Conflicts' section shows 2 Serious, 1 Online Warnings, 0 Offline Warnings, and 22 Info messages. The conflicts list includes entries for various hours with the description 'NOx ppm is invalid. Missing data will be substituted.'

TimeStamp	Unit On-Time (hours)	Unit Load (MW)	NOx ppm	NOx ppm Mon Code	NOx Rate CID	NOx Rate MID	NOx Rate Bias	O2% Mon Code	O2% CID	Gas (PNG) On-Time (hours)	
2008/03/06 7 AM	0.00	0	0.0	13	110	N10	1.000	20.9	13	120	0.00
2008/03/06 8 AM	0.00	0	0.0	13	110	N10	1.000	20.9	13	120	0.00
2008/03/06 9 AM	0.00	0	0.0	13	110	N10	1.000	20.9	13	120	0.00
124 2008/03/06 10 AM	0.07	4	0.0	39	110	N10	1.000	20.9	39	120	0.07
125 2008/03/06 11 AM	1.00	46	26.1	0	110	N10	1.000	14.6	0	120	1.00
126 2008/03/06 12 PM	1.00	46	26.1	38	110	N10	1.000	14.6	38	120	1.00
127 2008/03/06 1 PM	1.00	46	49.3	15	110	N10	1.000	7.0	15	120	1.00
128 2008/03/06 2 PM	1.00	46	27.3	0	110	N10	1.000	14.8	0	120	1.00
129 2008/03/06 3 PM	1.00	46	27.2	0	110	N10	1.000	14.8	0	120	1.00
130 2008/03/06 4 PM	1.00	46	26.6	0	110	N10	1.000	14.8	0	120	1.00

Hour	Description
2008/01/02 8 AM	NOx ppm is invalid. Missing data will be substituted.
2008/01/02 9 AM	NOx ppm is invalid. Missing data will be substituted.
2008/01/18 8 AM	NOx ppm is invalid. Missing data will be substituted.
2008/01/18 9 AM	NOx ppm is invalid. Missing data will be substituted.
2008/01/18 10 AM	NOx ppm is invalid. Missing data will be substituted.
2008/01/21 8 AM	NOx ppm is invalid. Missing data will be substituted.
2008/01/24 1 PM	NOx ppm is invalid. Missing data will be substituted.
2008/01/29 8 AM	NOx ppm is invalid. Missing data will be substituted.

Each hour in the quarter is listed in the top portion of the window. Each online hour has a line number to the left. Offline hours are shaded gray.

Data with serious errors are highlighted in red. These conflicts should be resolved before submitting the data to the EPA. Data highlighted in yellow indicates a warning. These are potential data issues that may need to be resolved.

If you place your cursor over a field where there is a serious error or a warning, pop up text appears explaining the error.

The screenshot shows the 'breez75X - Exira Station - Unit U-1' application window. The interface includes a menu bar (File, Tools, Help), a left sidebar with navigation options (Facility/Unit, Monitor Plan, QA, Emissions), and a main data area. The 'View/edit hourly data' section displays a table of hourly emissions data for 2008/03/06. The table columns include TimeStamp, Unit On-Time (hours), Unit Load (MW), NOx ppm, NOx ppm Mon Code, NOx CID, NOx Rate MID, NOx Rate Bias, O2%, O2% Mon Code, O2 CID, and Gas (PNG) On-Time (hours). Row 124 is highlighted in red, indicating a serious error. A tooltip for row 124 explains the error: 'Unit op-time is 0.07, but NOx ppm is offline (MC 39)'. Row 127 is highlighted in yellow, indicating a warning, with a tooltip: 'Unit op-time is 0.07, but Dry O2% is offline (MC 39)'. Below the data table is a 'Conflicts' section showing 2 Serious, 1 Online Warnings, 0 Offline Warnings, and 22 Info items. The conflicts list includes several entries for 'NOx ppm is invalid. Missing data will be substituted.' with timestamps ranging from 2008/01/02 to 2008/01/29.

TimeStamp	Unit On-Time (hours)	Unit Load (MW)	NOx ppm	NOx ppm Mon Code	NOx CID	NOx Rate MID	NOx Rate Bias	O2%	O2% Mon Code	O2 CID	Gas (PNG) On-Time (hours)
2008/03/06 7 AM	0.00	0	0.0	13	110	N10	1.000	20.9	13	120	0.00
2008/03/06 8 AM	0.00	0	0.0	13	110	N10	1.000	20.9	13	120	0.00
2008/03/06 9 AM	0.00	0	0.0	13	110	N10	1.000	20.9	13	120	0.00
124 2008/03/06 10 AM	0.07	4	0.0	39	110	N10	1.000	20.9	39	120	0.07
125 2008/03/06 11 AM	1.00	46	26.1	0	110	N10	1.000	14.6	0	120	1.00
126 2008/03/06 12 PM	1.00	46	27.3	0	110	N10	1.000	14.8	0	120	1.00
127 2008/03/06 1 PM	1.00	46	27.2	0	110	N10	1.000	14.8	0	120	1.00
128 2008/03/06 2 PM	1.00	46	27.3	0	110	N10	1.000	14.8	0	120	1.00
129 2008/03/06 3 PM	1.00	46	27.2	0	110	N10	1.000	14.8	0	120	1.00
130 2008/03/06 4 PM	1.00	46	26.6	0	110	N10	1.000	14.8	0	120	1.00

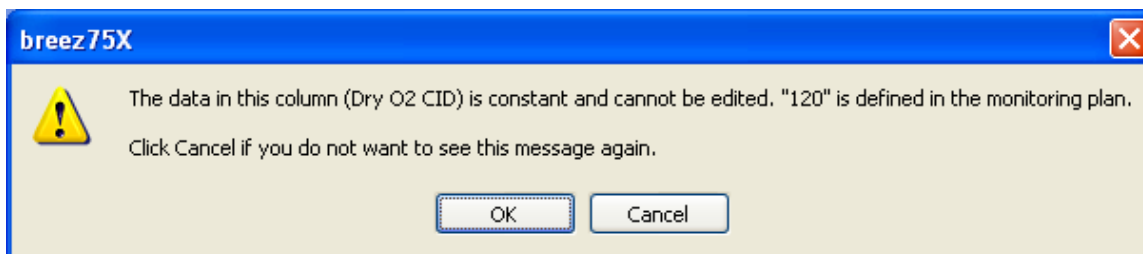
Use to skip to the previous conflict. Use to skip to the next conflict.

Use the pull down menu to select the hours you would like to view. You can choose from the following:

- All hours
- Conflict hours only
- Conflict hours + 4 hours
- Conflict hours + 12 hours
- Online hours only


Some columns may contain data that does not change for the entire quarter. Use the pull down menu to select Hide Constant Columns to remove these columns from view. This reduces the amount of data you have to examine.

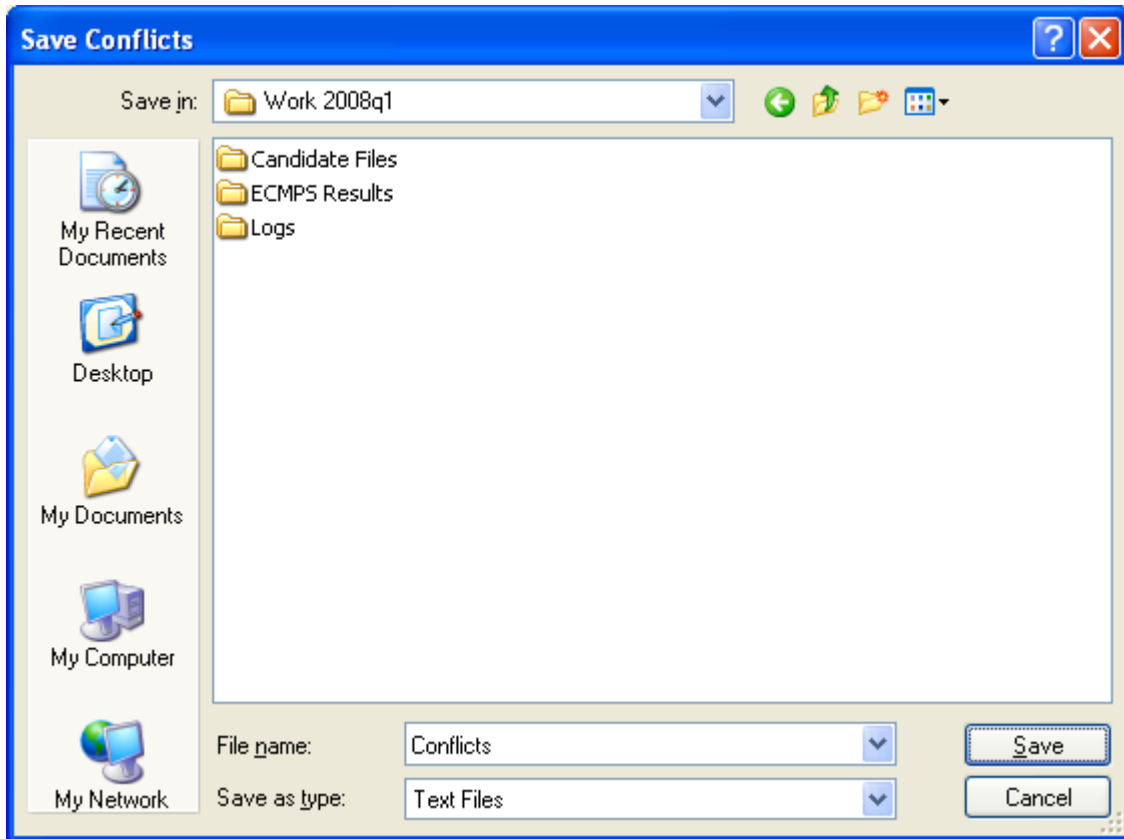
Note: Constant values cannot be edited using breez75X. If you need to edit these values, use the CeDAR Data Monitor Settings or Database Editor Settings to change these values. If you try to edit them using breez75X, you may see the following message.



The bottom portion of the window displays the number of Serious errors, Online Warnings, Offline, and Informational conflicts for the quarter. Click on the tab heading to show or hide these conflicts in the list below. Clicking on a conflict in the list causes that hour to be selected and displayed.

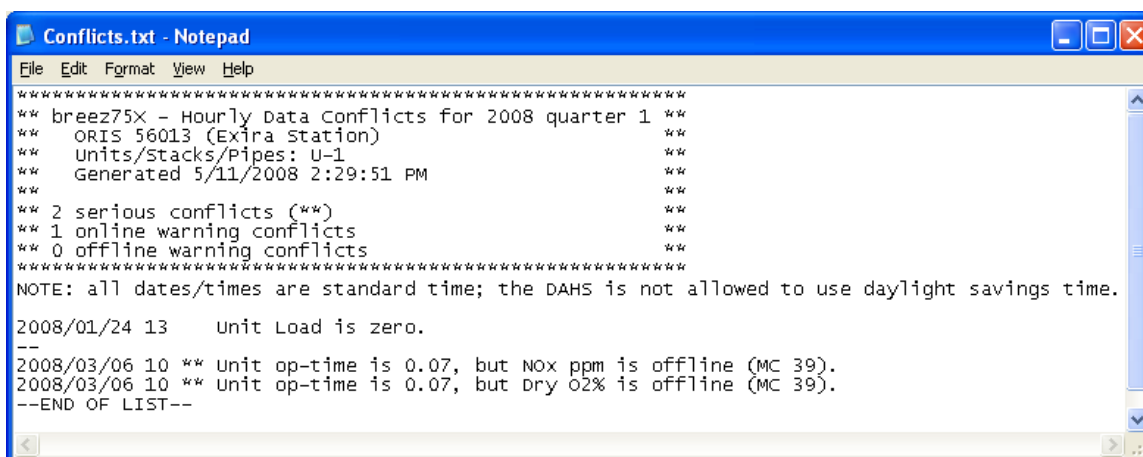
breez75X

Click  in the Conflicts title bar to save a list of conflicts.



A Save window opens. Select a location to save the file and name it. Click **[Save]**.

The following is an example of a conflict list.




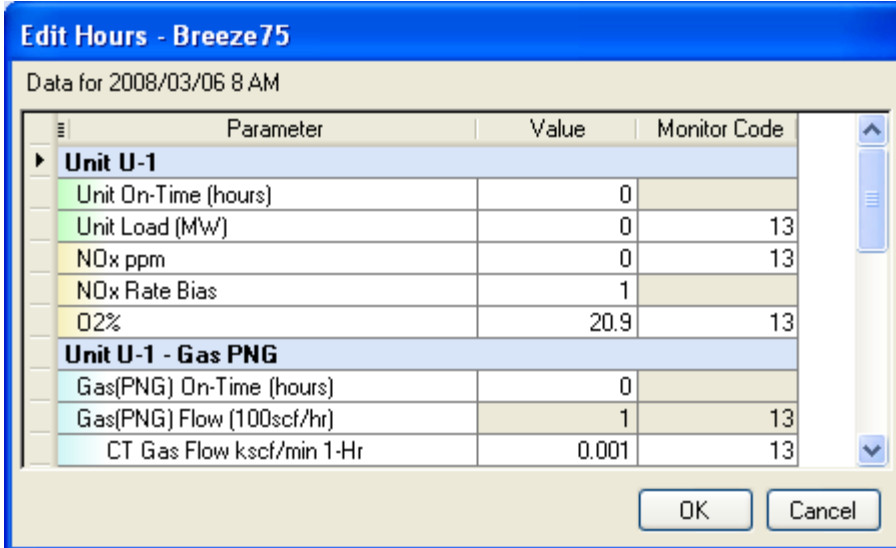
```
Conflicts.txt - Notepad
File Edit Format View Help
*****
** breez75X - Hourly Data Conflicts for 2008 quarter 1 **
** ORIS 56013 (Exira Station) **
** Units/Stacks/Pipes: U-1 **
** Generated 5/11/2008 2:29:51 PM **
** 2 serious conflicts (**) **
** 1 online warning conflicts **
** 0 offline warning conflicts **
*****
NOTE: all dates/times are standard time; the DAHS is not allowed to use daylight savings time.
2008/01/24 13 Unit Load is zero.
--
2008/03/06 10 ** unit op-time is 0.07, but NOx ppm is offline (MC 39).
2008/03/06 10 ** unit op-time is 0.07, but Dry O2% is offline (MC 39).
--END OF LIST--
```

Editing Data

breez75X provides several ways to edit data. You can edit a single data value by double clicking in the field and typing in the new value.

Note: Not all values displayed in breez75 can be edited, such as constants and calculated values. For calculated values, you can usually edit the underlying raw data but will need to refresh the conflicts list before you will see these changes

To edit a single hour using breez75X, highlight the hour and click . You can select multiple hours by using the Ctrl key or select a block of hours by using the Shift key.



Edit Hours - Breeze75

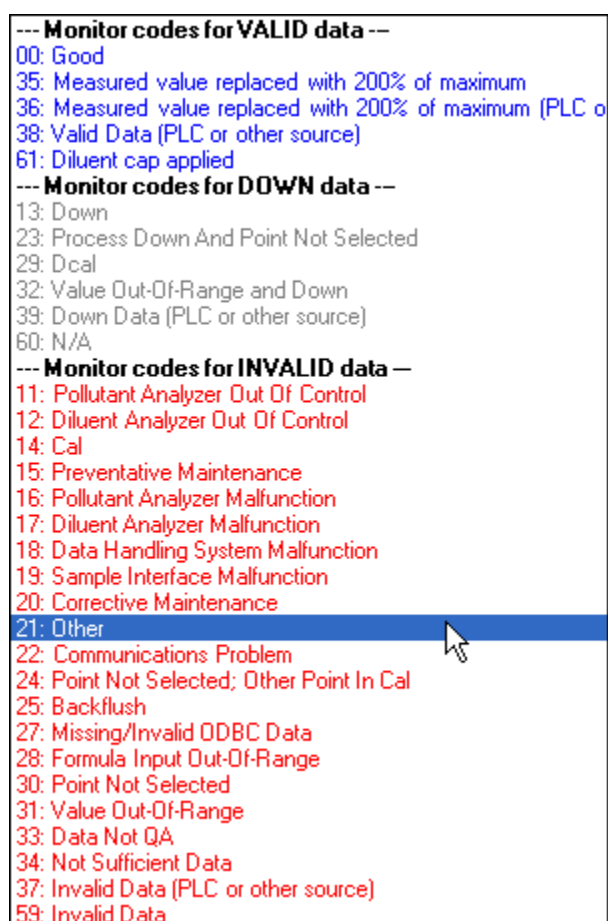
Data for 2008/03/06 8 AM

Parameter	Value	Monitor Code
Unit U-1		
Unit On-Time (hours)	0	
Unit Load (MW)	0	13
NOx ppm	0	13
NOx Rate Bias	1	
O2%	20.9	13
Unit U-1 - Gas PNG		
Gas(PNG) On-Time (hours)	0	
Gas(PNG) Flow (100scf/hr)	1	13
CT Gas Flow kscf/min 1-Hr	0.001	13

OK Cancel

To change a value, click in the field and type in the new value accordingly. Fields that appear in gray are for informational purposes and cannot be changed.

To change a monitor code, double click on the field.



You receive a pop up window with a list of monitor codes. Monitor codes are categorized by **VALID**, **DOWN**, and **INVALID** data. Scroll down to select the appropriate monitor code.

breez75X

When you have finished editing, click **[OK]**.

The screenshot shows the 'breez75X - Exira Station - Unit U-1' application window. The main area displays 'View/edit hourly data' for 'All hours' and 'All Columns'. The data table is as follows:

	TimeStamp	Unit On-Time (hours)	Unit Load (MW)	NOx ppm	NOx ppm Mon Code	NOx CID	NOx Rate MID	NOx Rate Bias	O2 %	O2 Mon Code	O2 CID	Gas (PNG) On-Time (hours)
	2008/03/06 7 AM	0.00	0	0.0	13	110	N10	1.000	20.9	13	120	0.00
	2008/03/06 8 AM	0.00	0	0.0	13	110	N10	1.000	20.9	13	120	0.00
	2008/03/06 9 AM	0.00	0	0.0	13	110	N10	1.000	20.9	13	120	0.00
124	2008/03/06 10 A.	0.00	4	0.0	39	110	N10	1.000	20.9	39	120	0.07
125	2008/03/06 11 AM	1.00	46	26.1	0	110	N10	1.000	14.6	0	120	1.00
126	2008/03/06 12 PM	1.00	46	26.1	38	110	N10	1.000	14.6	38	120	1.00
127	2008/03/06 1 PM	1.00	46	49.3	15	110	N10	1.000	7.0	15	120	1.00
128	2008/03/06 2 PM	1.00	46	27.3	0	110	N10	1.000	14.8	0	120	1.00


The 'Conflicts' section shows:

- 2 Serious
- 1 Online Warnings
- 0 Offline Warnings
- 22 Info

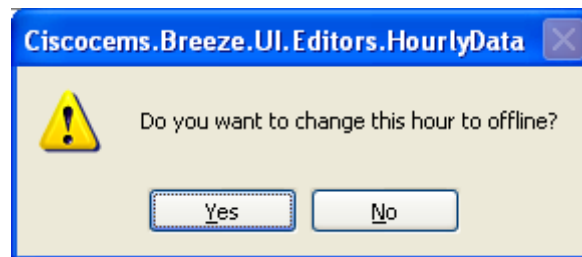
The conflicts table lists:

Hour	Description
2008/03/06 10 AM	Unit op-time is 0.07, but NOx ppm is offline (MC 39).
2008/03/06 1 PM	NOx ppm is invalid. Missing data will be substituted.
2008/03/27 8 AM	NOx ppm is invalid. Missing data will be substituted.
2008/01/02 8 AM	Dry O2% is invalid. Missing data will be substituted.
2008/01/02 9 AM	Dry O2% is invalid. Missing data will be substituted.

The date and time and the values that have been edited appear in blue.

Another editing technique can be used when you would like to mark an entire hour or group of hours to offline. To edit an hour or group of hours offline, select the hour (s) and click .

You receive a pop up window that allows you to confirm that these are the hours you wish to set offline.





Click **[Yes]**.

	TimeStamp	Unit On-Time (hours)	Unit Load (MW)	NOx ppm	NOx ppm Mon Code	NOx CID	NOx Rate MID	NOx Rate Bias	O2 %	O2% Mon Code	O2 CID	Gas (PNG) On-Time (hours)
	2008/03/06 7 AM	0.00	0	0.0	13	110	N10	1.000	20.9	13	120	0.00
	2008/03/06 8 AM	0.00	0	0.0	13	110	N10	1.000	20.9	13	120	0.00
	2008/03/06 9 AM	0.00	0	0.0	13	110	N10	1.000	20.9	13	120	0.00
124	2008/03/06 10 AM	0.00	4	0.0	13	110	N10	1.000	20.9	13	120	0.00
125	2008/03/06 11 AM	1.00	46	26.1	0	110	N10	1.000	14.6	0	120	1.00
126	2008/03/06 12 PM	1.00	46	26.1	38	110	N10	1.000	14.6	38	120	1.00
127	2008/03/06 1 PM	1.00	46	49.3	15	110	N10	1.000	7.0	15	120	1.00
128	2008/03/06 2 PM	1.00	46	27.3	0	110	N10	1.000	14.8	0	120	1.00

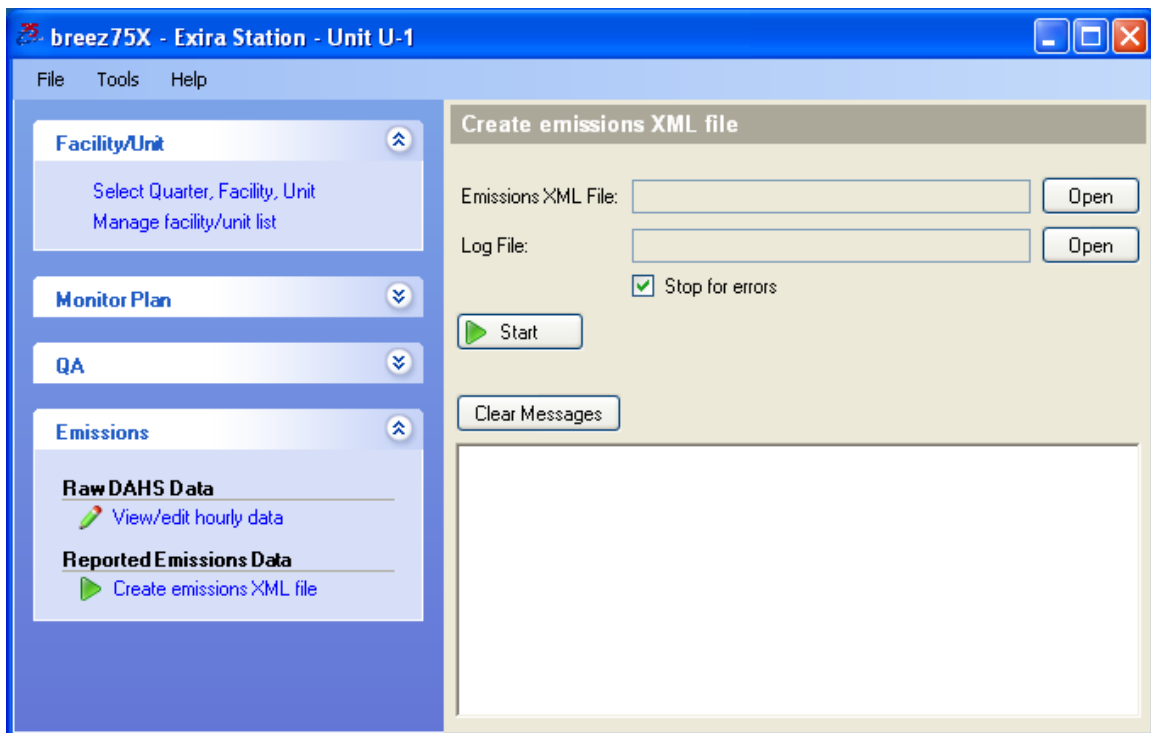
The date and time and the values that have been edited appear in blue. The monitor codes for the selected hours are changed to 13 and the operating times for the selected hours are changed to 0.00.

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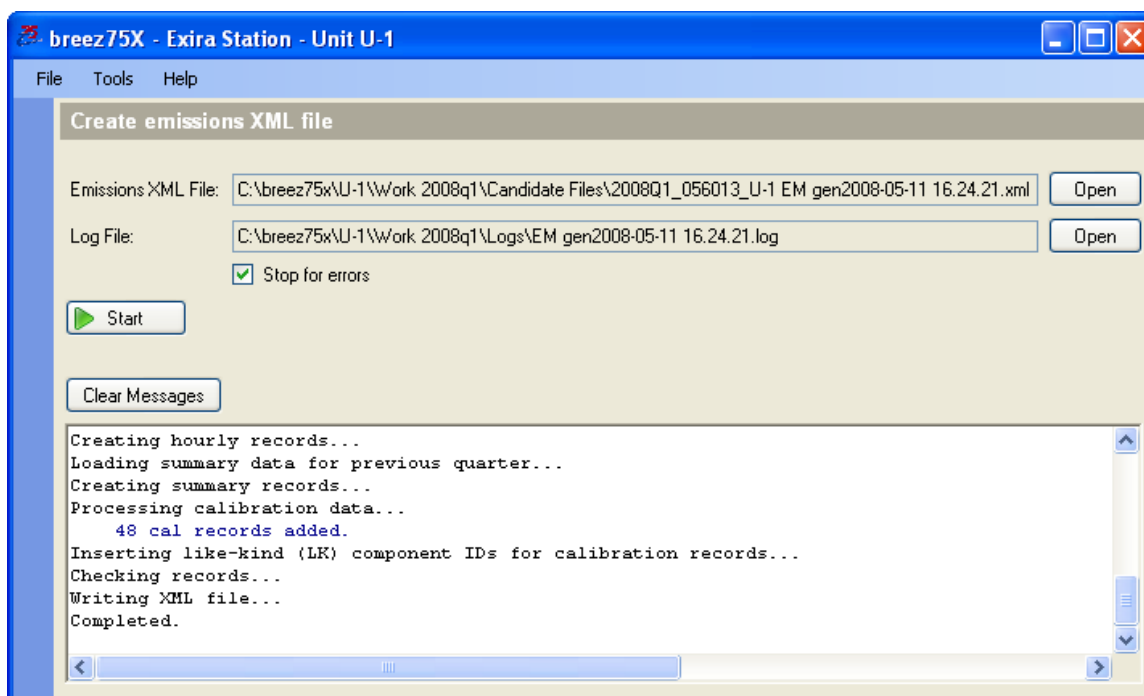
Click  to save the changes.

Click  to check the conflicts again.

To create a quarterly emissions file, click **Create emissions XML file**.



Click **[Start]**.



The emissions XML file is placed in the Candidate Data folder in the appropriate Work folder. The file is named with the year and quarter, the facility ORIS code, unit name, EM (indicating that this is emissions data), and the date and time the file was generated.