Totalflow product line

Technical bulletin 199
XSeries^{G4} liquid application
Upgrade phase 0 to phase 1 procedure

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ABB

1. Introduction

This technical bulletin describes the procedure for upgrading the phase 0 API liquid tube application (selectable units) to phase 1 API liquid tube application (selectable units).

2. Description

Totalflow has made significant changes to their liquid tube application with the release of the following flashes, referred to as phase 1 liquid tube application. The Liquid tube application that is in flash part numbers prior to the listed part numbers below is referred to as phase 0. This procedure applies only to customers using phase 0 liquid tube application.

- Part number: 2102861-062 (XFC^{G4} (US) NoWeb)

- Part number: 2103132-062 (XRC^{G4} (US) NoWeb)

- Part number: 2104158-033 (XFC^{G4} EX (SU) NoWeb)

- Part number: 2104159-033 (XFC^{G4} EX (US) NoWeb)

- Part number: 2104339-025 (XFC^{G4} (SU) NoWeb)

- Part number: 2104340-025 (XRC^{G4} (SU) NoWeb)

- Part number: 2104497-020 (µFLO^{G4} (US) NoWeb)

- Part number: 2104498-020 (µFLO^{G4} (SU) NoWeb)

- Part number: 2105151-002 XFC^{G4} (US)

- Part number: 2105152-002 XFC^{G4} (SU)

- Part number: 2105153-002 XRC^{G4} (US)

- Part number: 2105154-002 XRC^{G4} (SU)

These changes make it impossible for users of phase 0 liquid tube application to simply upgrade to flashes after the phase 1 liquid release and retain configuration and measurement data for their phase 0 liquid tube runs, manual steps have to be taken to recover configuration and backup measurement data for a smooth upgrade from phase 0 to phase 1.

3. Is your product affected?

The phase 0 API Liquid tube application used in any flash versions prior to the versions listed in section 2 is affected. Customers using this phase 0 liquid application attempting to upgrade to phase 1 must follow the procedures described in this bulletin.

4. Resolution

The procedure included in this bulletin describes the major steps to successfully upgrade phase 0 API liquid applications to phase 1 API liquid applications. The steps include: saving existing application configuration, collecting and backing up data, removal of phase 0 API liquid application(s), flash upgrade, instantiation and configuration of the phase 1 API liquid applications. The steps must be followed in the order presented to be completed successfully.

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For latest version check www.abb.com/totalflow

Doc name: Technical bulletin 199
File name: 2105377TBAA_TB199.DOCX
Date: 4/28/2015
Page: 2/15

4.1. Procedure

1. In PCCU entry mode, save screen shots of the following highlighted tabs (one screenshot for each tab) of all phase 0 liquid tube application(s). See Figure 1 to Figure 5.

   Note: This step has been included to illustrate a way to save the existing configuration. If you have documented the configuration already, skip to the next step. If you need an example of how to perform a screen capture using PCCU, see procedure in section 4.2.
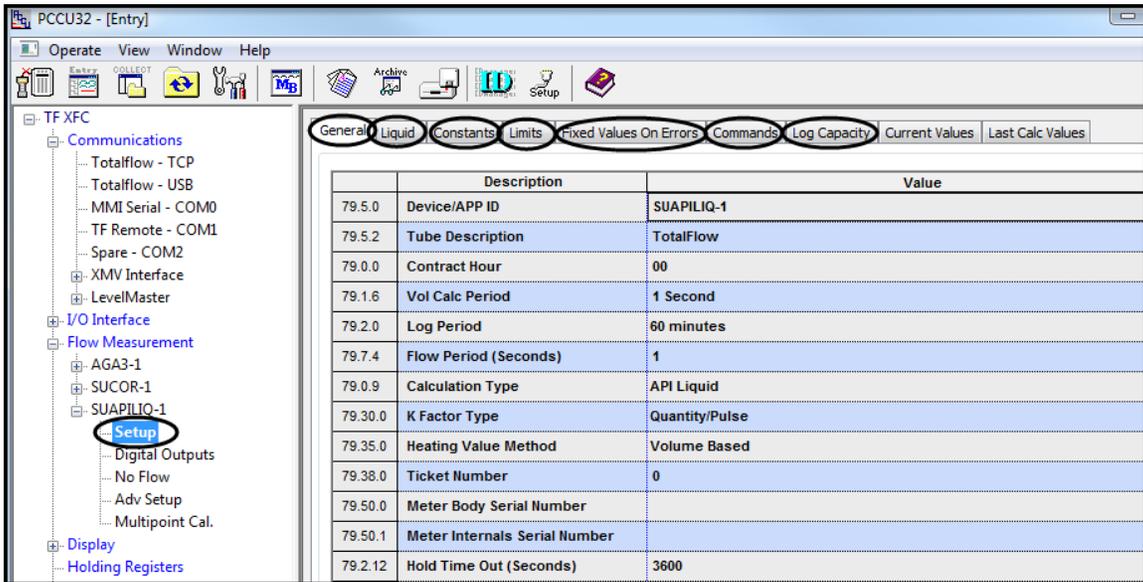
Figure 1: API Liquid application Setup General tab
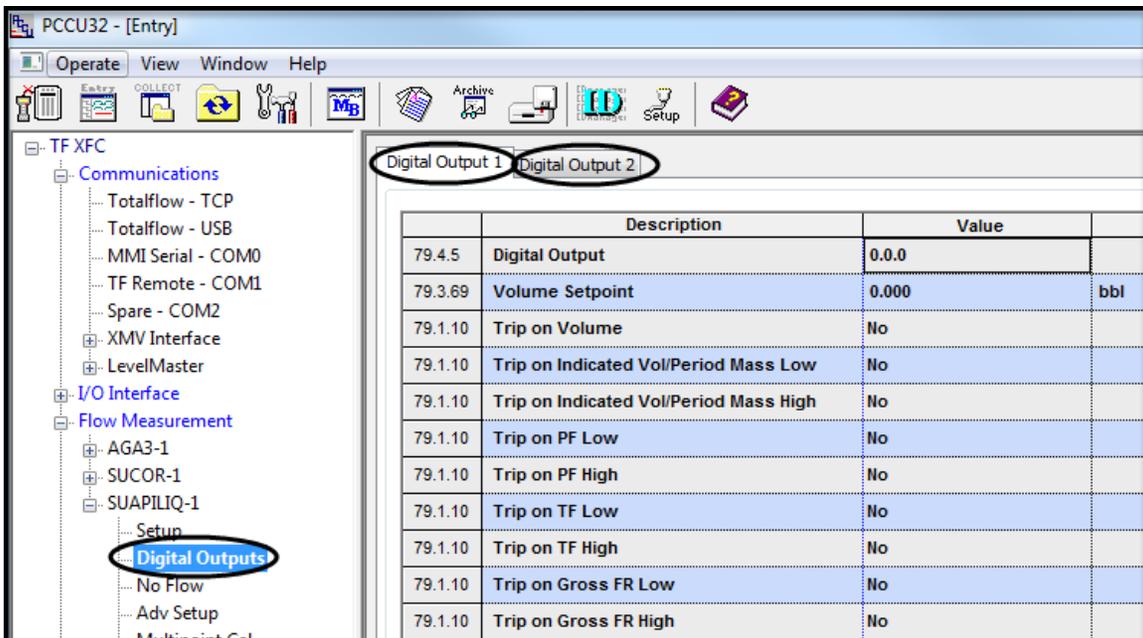
Figure 2: API Liquid application Digital Outputs screen

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For latest version check www.abb.com/totalflow

Doc name: Technical bulletin 199
File name: 2105377TBAA_TB199.DOCX
Date: 4/28/2015
Page: 3/15
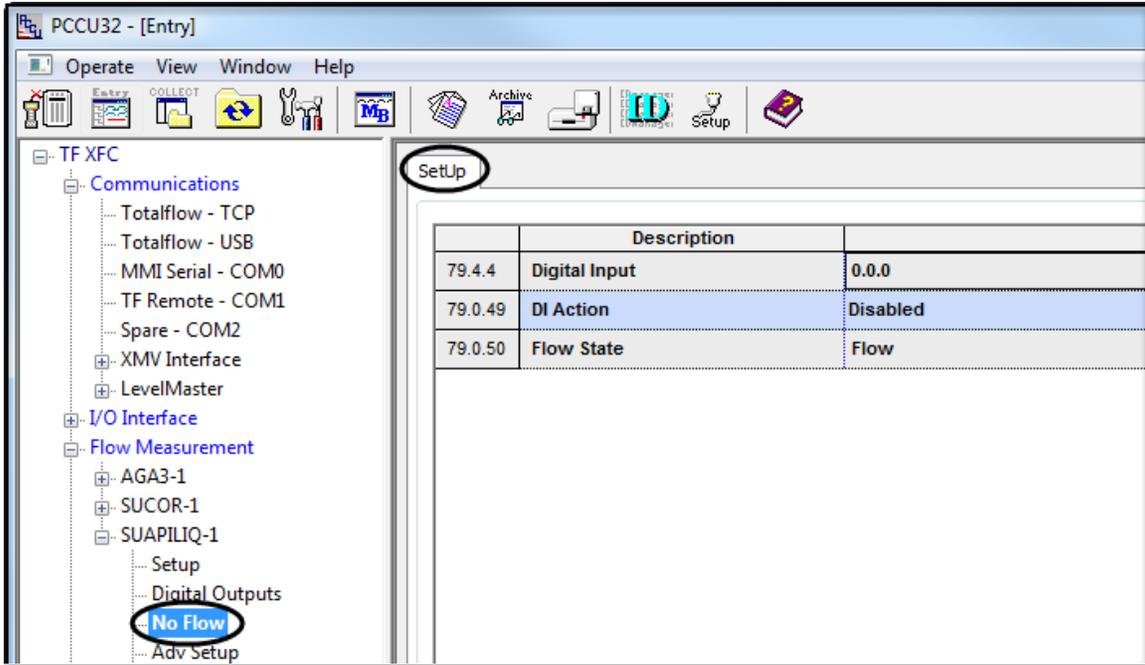
Figure 3: API Liquid application No Flow Setup Screen
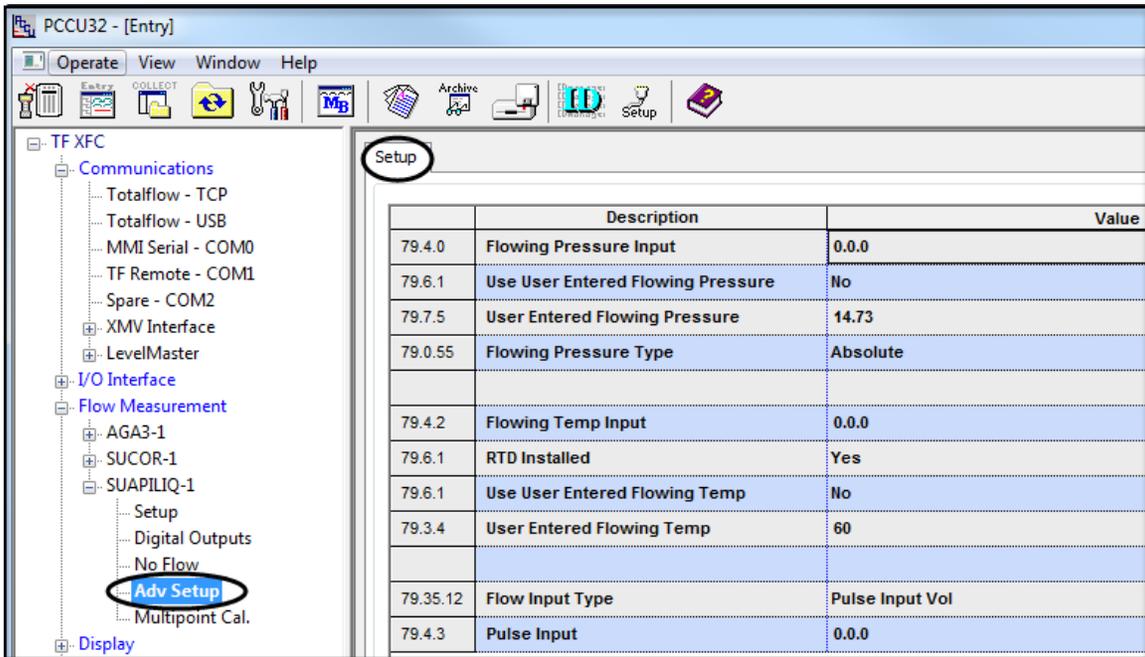
Figure 4: API Liquid application Adv Setup Screen

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For latest version check www.abb.com/totalflow

Doc name:	Technical bulletin 199
File name:	2105377TBAA_TB199.DOCX
Date:	4/28/2015
Page:	4/15
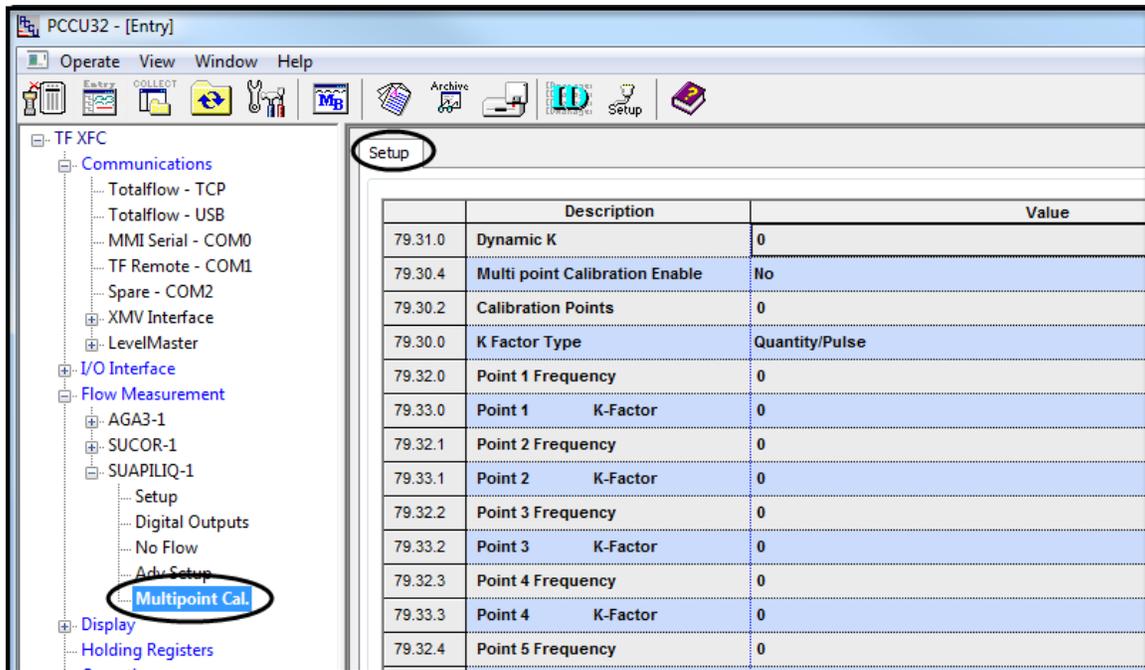
Figure 5: API Liquid application Multipoint Cal. Setup screen

2. Use PCCU to collect "All Data" for ALL tube application(s) to a laptop file, select the output options (typically Archive File, Spreadsheets and/or CFX files) that are appropriate according to the user's operating procedure.

3. If WinCCU Archive File and/or Long Term Database are used to store long term data for tube applications, user needs to import the collected laptop file to WinCCU and output it to Archive File and/or Long Term Database.

4. If PCCU/WinCCU Archive File(s) are used to store long term data for tube applications, user needs to back up the Archive File(s) for all phase 0 liquid tube application(s).

    a. Back up Archive File(s) - rename the archive file(s) for phase 0 liquid tube applications (for example, rename SUAPILIQ.-1_ to SUAPILIQ.-1_Phase0).

Note: the PCCU/WinCCU Long Term Database (Access or SQL) will retain the liquid phase 0 data since a liquid phase 1 archive file cannot be updated to the long term database. Updating of the latest version of liquid data to the long term database is planned for liquid phase 2.

5. If non-Totalflow software tool(s) are used to store long term data for tube applications, follow the procedure of these tools to merge in the collected laptop file and backup the long term data for all phase 0 liquid tube application(s).

6. In PCCU entry mode, go to the "Applications" tab under the top tree node (Figure 6), delete all phase 0 liquid tube application(s) and then "Send".

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For latest version check www.abb.com/totalflow

Doc name:	Technical bulletin 199
File name:	2105377TBAA_TB199.DOCX
Date:	4/28/2015
Page:	5/15
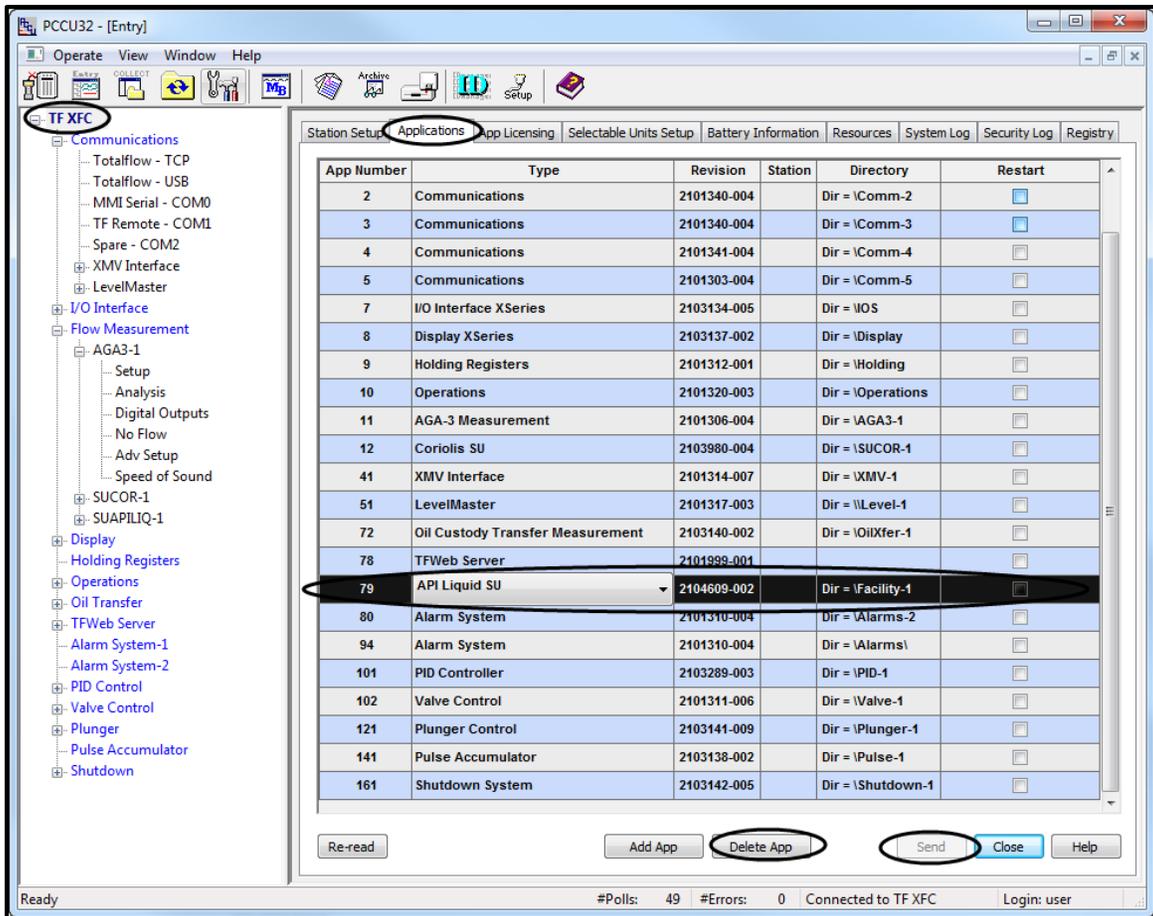
Figure 6: System Applications Tab Screen

7. In PCCU entry mode, go to "Station Setup" tab under the top tree node (Figure 7), on the "Update Cold Start Configuration" field choose "Delete and Re-Create TfCold" and then "Send".

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For latest version check www.abb.com/totalflow

Doc name: Technical bulletin 199
File name: 2105377TBAA_TB199.DOCX
Date: 4/28/2015
Page: 6/15
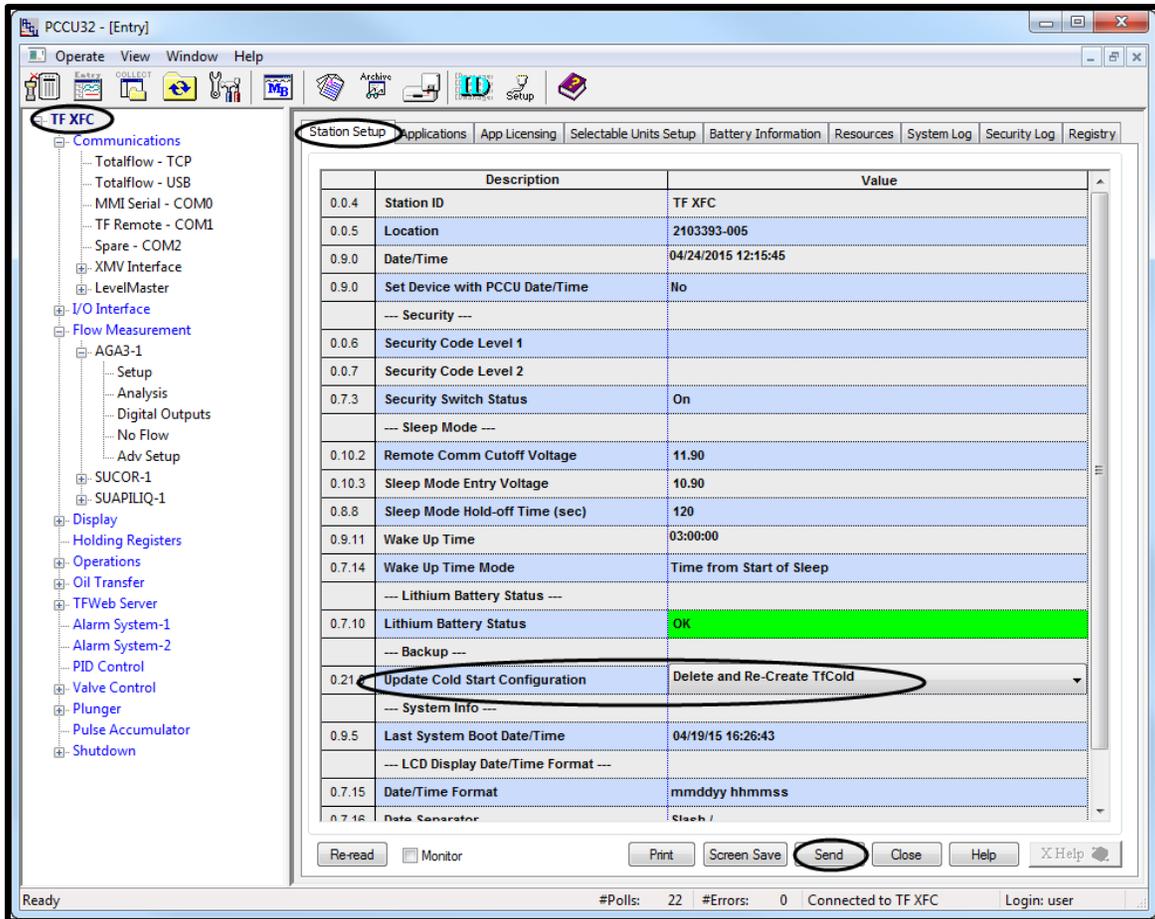
Figure 7: System Station Setup Screen

8. Use PCCU "32 Bit X-Series Loader" (Figure 8) to upgrade flash to one that has the phase 1 liquid tube applications and cold start the device.

   Note: Before upgrading, obtain the appropriate flash for your system. See section 2 to verify the flash part numbers which support the Phase 1 API liquid (SU) application.

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For latest version check www.abb.com/totalflow

Doc name: Technical bulletin 199
File name: 2105377TBAA_TB199.DOCX
Date: 4/28/2015
Page: 7/15
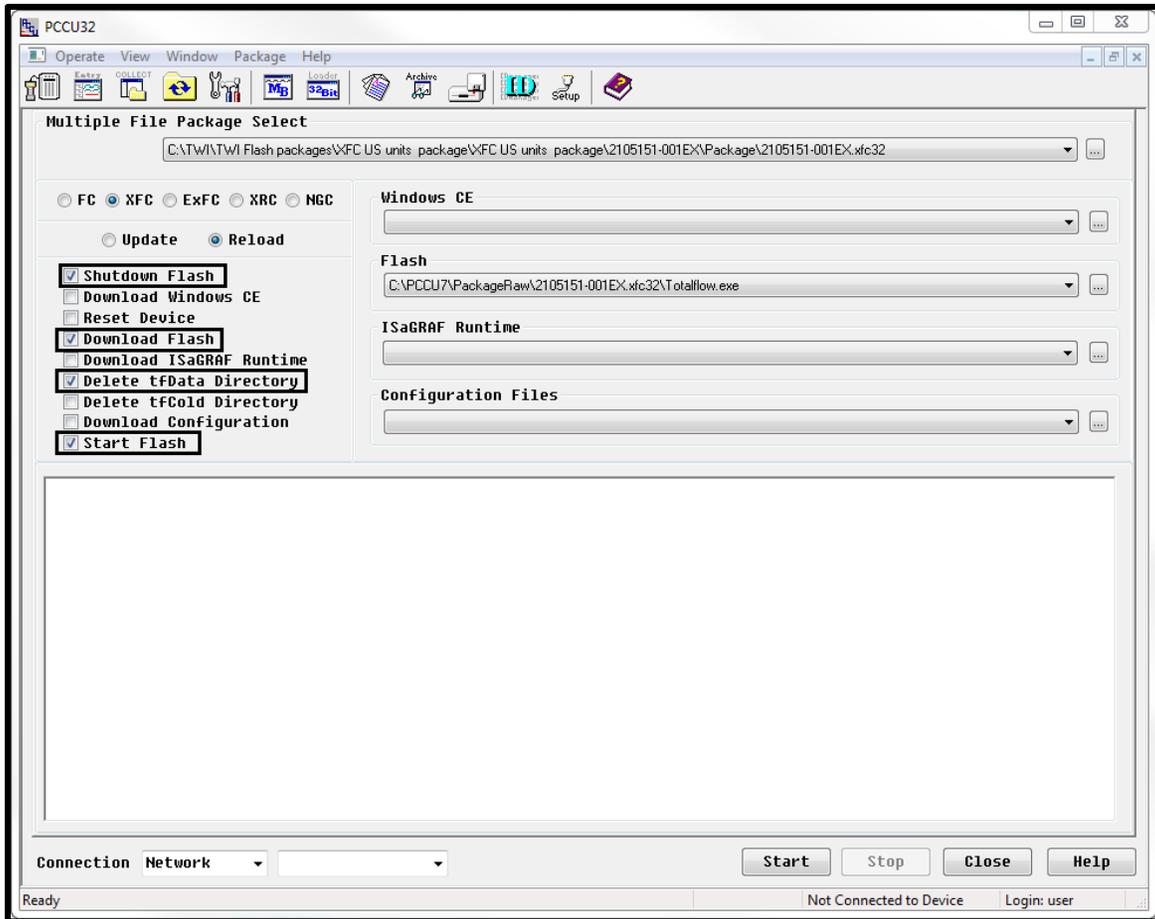
Figure 8: 32 Bit XSeries Loader screen

9. When the device is re-started after flash upgrade, in PCCU entry mode, go to the "Applications" tab under the top tree node, "Add" the same number of liquid tube applications as before the upgrade and then "Send".

10. In PCCU entry mode, go to each and every instantiated liquid tube application, on each and every tab that was saved during step 1, change configurations according to the saved screen shots. For configurations that were not available in phase 0, set them appropriately according to users' needs.

4.2. Using PCCU to save screens (optional)

The following steps illustrate how to use PCCU to save screens in order to save your configuration before flash upgrade.

1. In PCCU Entry mode, select **Station Setup** (Figure 9)

2. Select **Screen Save** at the bottom of the screen.

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For latest version check www.abb.com/totalflow

Doc name:	Technical bulletin 199
File name:	2105377TBAA_TB199.DOCX
Date:	4/28/2015
Page:	8/15
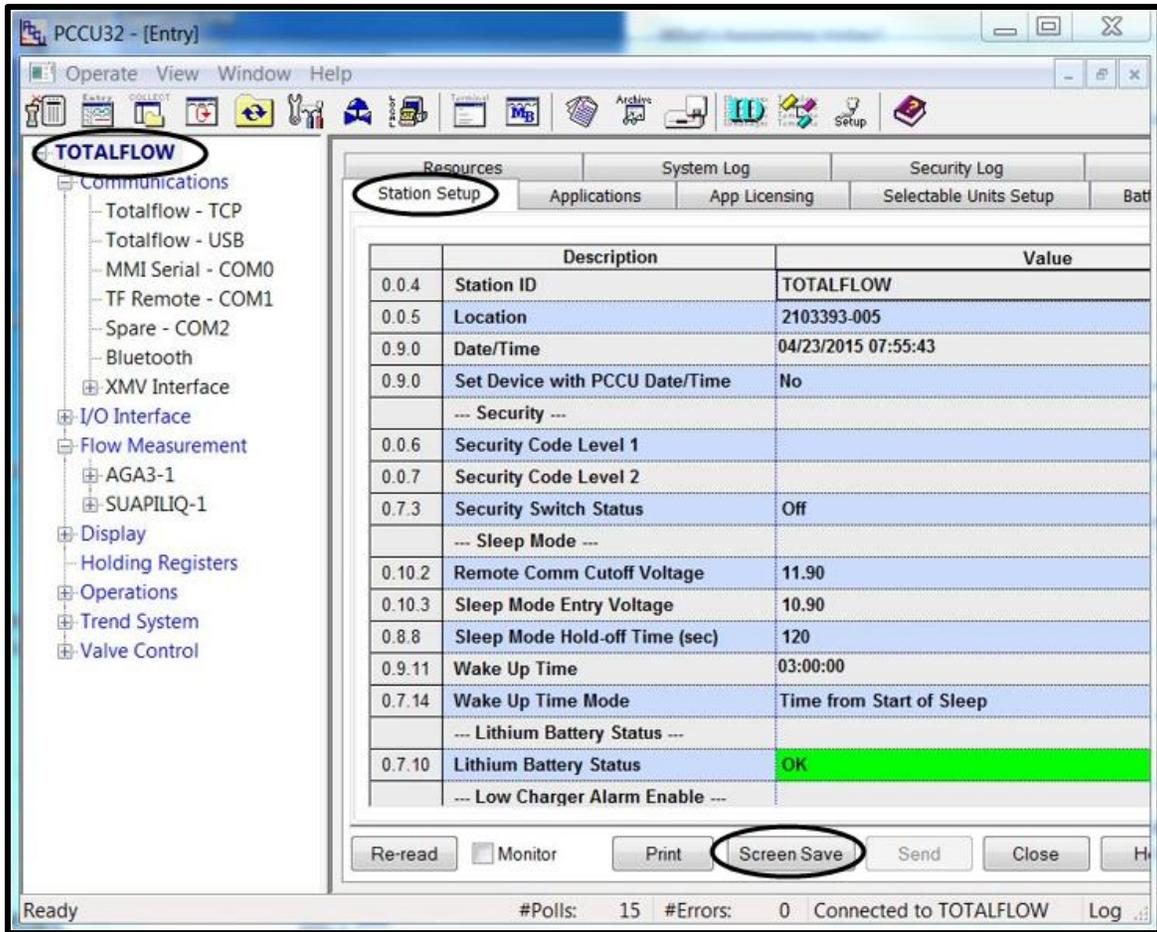
Figure 9: Station Setup screen

3. At the Save Data to Disk screen, select each of the API Liquid application items (Figure 10).

4. Click **OK**.

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For latest version check www.abb.com/totalflow

Doc name: Technical bulletin 199
File name: 2105377TBAA_TB199.DOCX
Date: 4/28/2015
Page: 9/15
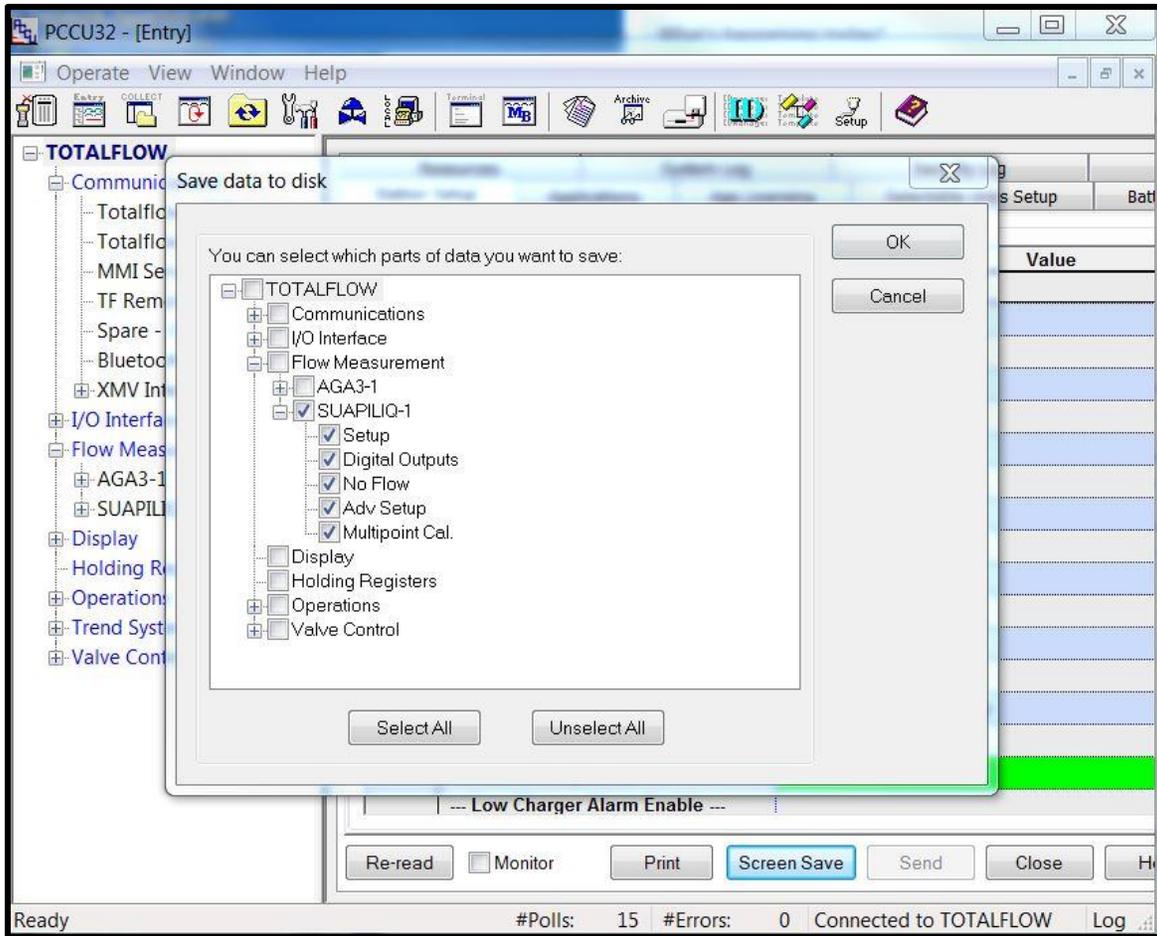
Figure 10: Save data to disk screen

5. At the Device Configuration File window, type the file name with the **.fcu** extension (Figure 11). The file is saved in the PCCU folder.

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For latest version check www.abb.com/totalflow

Doc name: Technical bulletin 199
File name: 2105377TBAA_TB199.DOCX
Date: 4/28/2015
Page: 10/15
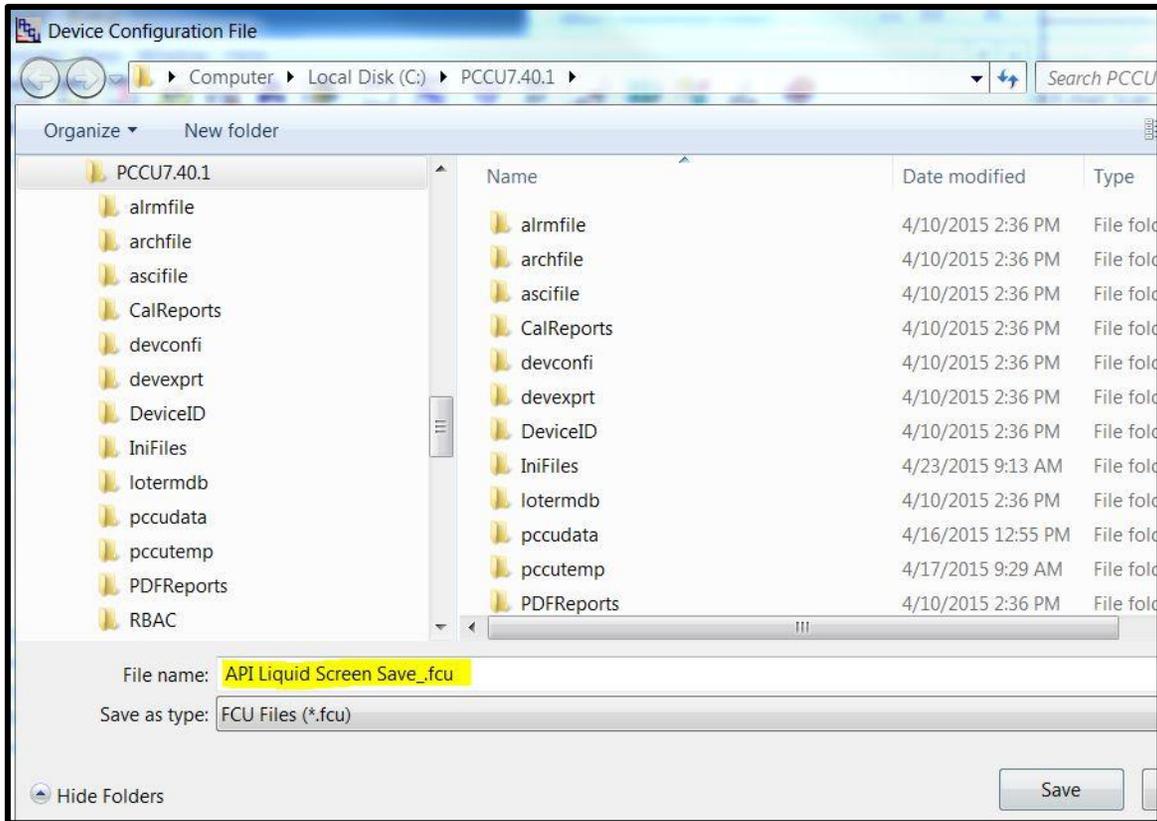
Figure 11: Device Configuration File screen

6. To view the screen shots using PCCU, click on **Operate**, and choose *Open Configuration File* from the dropdown menu (Figure 12).

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For latest version check www.abb.com/totalflow

Doc name: Technical bulletin 199
File name: 2105377TBAA_TB199.DOCX
Date: 4/28/2015
Page: 11/15
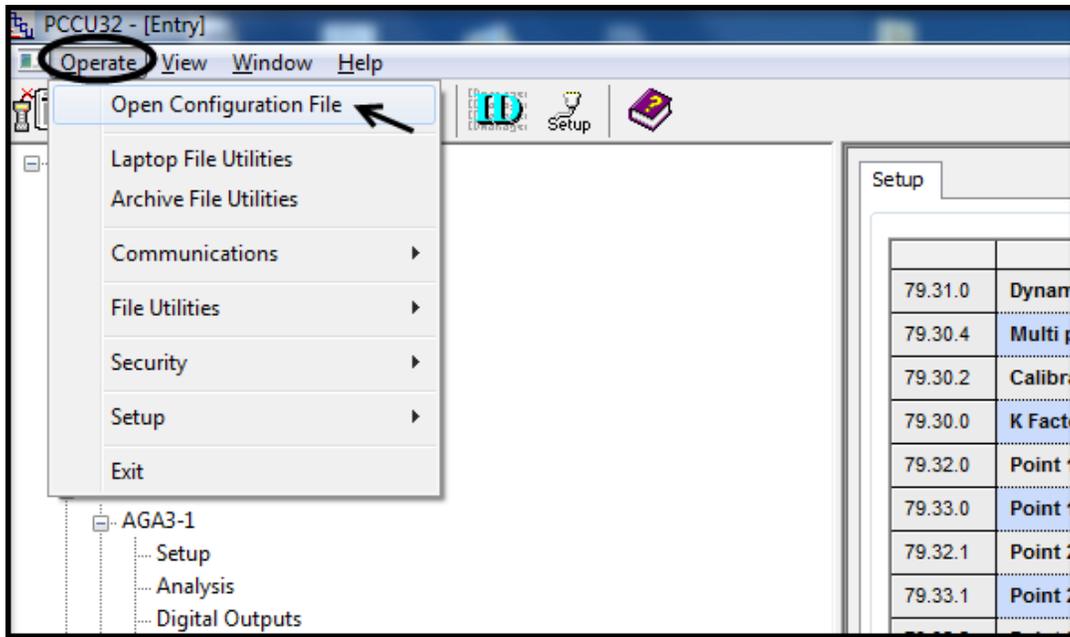
Figure 12: Opening Configuration file using PCCU

7. At the Device Configuration File screen, locate and select the configuration file saved earlier in the PCCU7 folder (Figure 13).

8. Click **Open**.
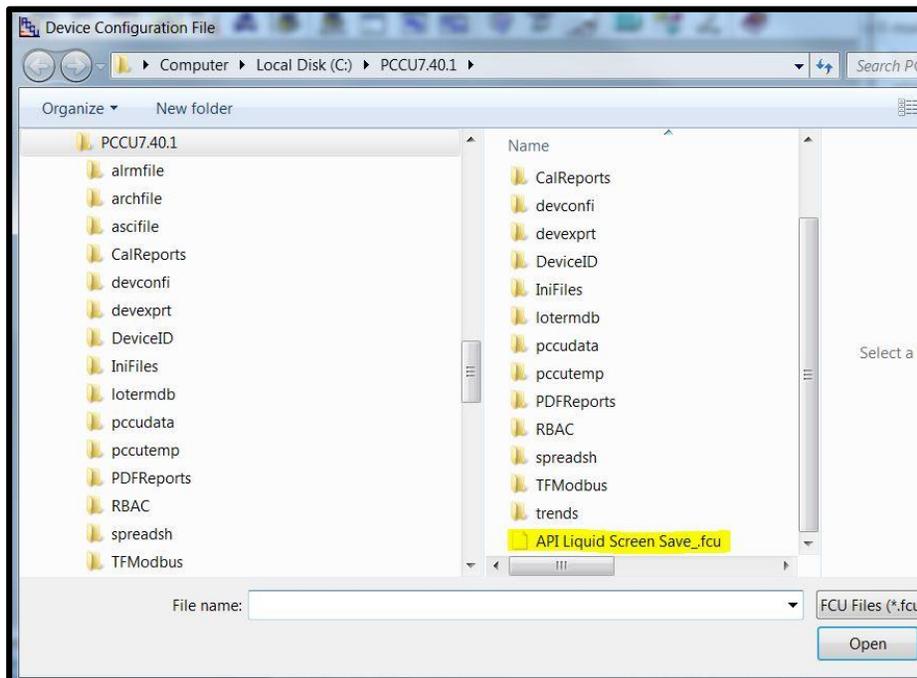
Figure 13: Device Configuration Files

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For latest version check www.abb.com/totalflow

Doc name:	Technical bulletin 199
File name:	2105377TBAA_TB199.DOCX
Date:	4/28/2015
Page:	12/15

9. View all the API Liquid Tube configuration screens (Figure 14).

Figure 14: Configuration File view screen

Note: If connected to the device using PCCU in entry mode, both the entry mode and the configuration file screens can be displayed simultaneously. After the upgrade, if you open the configuration file while connected to the device, you can resize and move the configuration file screen (Figure 15) to be able to view the entry screen as well (Figure 16).

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For latest version check www.abb.com/totalflow

Doc name: Technical bulletin 199
File name: 2105377TBAA_TB199.DOCX
Date: 4/28/2015
Page: 13/15

Figure 15: Resizing configuration file window

To avoid confusion between the screens check the screen name at the top of the window. The window name indicates if showing the entry mode or the configuration file screens.
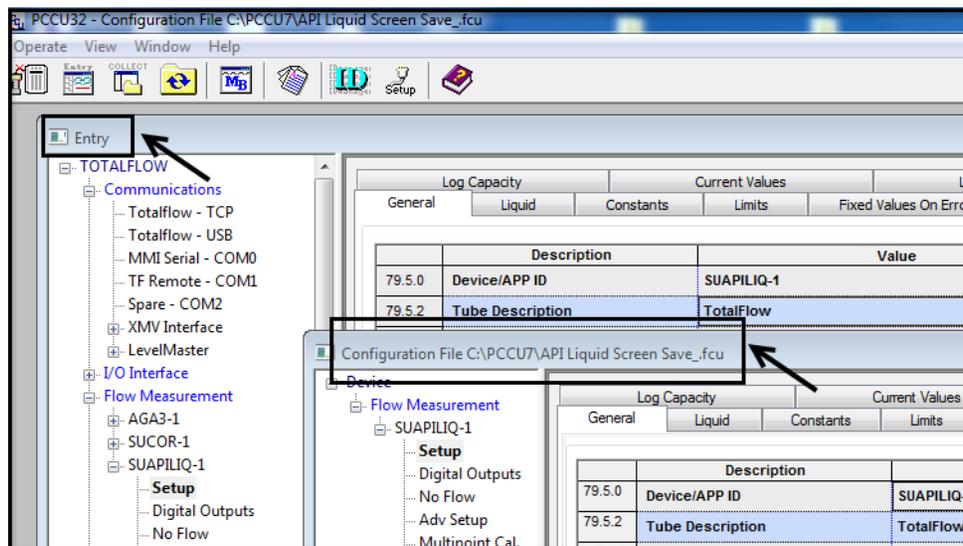
Figure 16: Entry mode and configuration file screens in PCCU

5. Additional Information

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For latest version check www.abb.com/totalflow

Doc name:	Technical bulletin 199
File name:	2105377TBAA_TB199.DOCX
Date:	4/28/2015
Page:	15/15