

FISHER-ROSEMOUNT

RS3™

**Software
Discrepancy
Notes**

Performance Series 1, Release 1.1

**October 1996
U.S. Manual PN: 10P56870301**

©Fisher-Rosemount Systems, Inc., 1987-1996.

All rights reserved.

Printed in the U.S.A.

Components of the RS3 distributed process control system may be protected by U.S. patent Nos. 4,243,931; 4,370,257; 4,581,734. Other Patents Pending.

RS3 is a mark of one or more of the Fisher-Rosemount group of companies. All other marks are property of their respective owners. The contents of this publication are presented for informational purposes only, and while every effort has been made to ensure their accuracy, they are not to be construed as warranties or guarantees, express or implied, regarding the products or services described herein or their use or applicability. We reserve the right to modify or improve the designs or specifications of such products without notice.

Fisher-Rosemount Systems, Inc.
12000 Portland Avenue South
Burnsville, Minnesota 55337 U.S.A.

Telephone: (612) 895-2000
TWX/Telex: 192177
FAX: (612) 895-2044

License Agreement

Definitions: The term “You” includes, but is not limited to, users of the Fisher-Rosemount Systems, Inc. (FRSI) product embodied in the computer program herein, the user’s employer, the employer’s wholly owned subsidiaries, parent company, agents, employees, contractors, and subcontractors. The term “License Agreement” refers to one of FRSI’s License Agreements, including but not limited to, all Software License Agreements, accompanying FRSI products, all Beta Test Agreements, and all Master License Agreements.

Any and all use of this product is subject to the terms and conditions of the applicable License Agreement. The terms and conditions of the applicable License Agreement by and between You and FRSI shall remain effective to govern the use of this product.

The existence of a License Agreement by and between You and FRSI must be confirmed prior to using this product. If the site at which this Program is used is a Licensed Facility under a Master License Agreement with FRSI, the applicable License Certificate that was sent to You applies. If the site at which this Program is used is NOT a Licensed Facility under a Master License Agreement with FRSI and the use of the program is NOT governed by a Beta Test Agreement, the use of this Program shall be governed by the Software License Agreement that is printed in the sales literature, on the package in which the program was delivered and in this manual.

License Certificate for RS3

If the site at which this Program is used is a Licensed Facility under a Master License Agreement between You and Fisher-Rosemount Systems, Inc., this Licensed Copy is provided for Licensee’s use pursuant to its Master License Agreement with FRSI (“Agreement”) as modified herein. If this is an original Licensed Copy, it may be used only on the equipment with which it has been provided except as otherwise provided in the Agreement. If this is a Licensed Copy of a Revision or Upgrade, it may only be used in lieu of and under the same terms as the Licensed Copy previously provided to Licensee.

Notwithstanding provisions of the Agreement, the term of the Limited Warranty for this Licensed Copy is 90 days from the date of shipment from FRSI. Licensee’s other rights and obligations with respect to its use of this Licensed Copy are set forth in the Agreement. Questions concerning Licensee’s rights and obligations should be directed to Contract Management, Fisher-Rosemount Systems, Inc., 12000 Portland Avenue South, Burnsville, Minnesota 55337.

Software License Agreement for RS3

BY OPENING THIS PACKAGE YOU AGREE TO ACCEPT THESE TERMS AND CONDITIONS. IF YOU DO NOT AGREE WITH THESE TERMS, YOU SHOULD PROMPTLY RETURN THE PACKAGE UNOPENED AND YOUR MONEY WILL BE REFUNDED. Fisher-Rosemount Systems, Inc. (FRSI) provides this computer program and related materials for your use. You assume responsibility for the acquisition of a machine and associated equipment compatible with the program, and for installation, use, and results obtained from the program.

LICENSE: FRSI grants to you a non-transferable, non-exclusive license to: (a) use all fully paid up licensed programs provided to you to run a single machine; (b) copy the program for backup or modification purposes in support of the program on the single machine. You must reproduce and include the copyright notice on any copy or modification. YOU MAY NOT REVERSE ENGINEER, USE, COPY, OR MODIFY ANY PROGRAM OR RELATED MATERIALS OR ANY COPY, MODIFICATION, IN WHOLE OR IN PART, EXCEPT AS EXPRESSLY PROVIDED FOR IN THIS LICENSE. IF YOU TRANSFER POSSESSION OF ANY COPY OR MODIFICATION OF THE PROGRAM OR RELATED MATERIALS TO ANOTHER PARTY, YOUR LICENSE IS AUTOMATICALLY TERMINATED.

TITLE: Title to and ownership of the program and related materials shall at all times remain with FRSI or its licensors. Your right to use the same is at all times subject to the terms and condition of this Agreement. FRSI may, from time to time, revise or update the program and/or related materials and, in so doing, incurs no obligation to furnish such revisions or updates to you.

TERM: This license is effective upon opening this package. You may terminate it at any time by destroying the program and the related materials together with all copies and modifications in any form. It will also terminate upon conditions set forth elsewhere in this Agreement or if you fail to comply with any term or condition of this Agreement. You agree upon such termination to destroy the program and the related materials together with all copies and modification in any form.

LIMITED WARRANTY: FRSI warrants the media on which the program is furnished to be free from defects in materials and workmanship under normal use for a period of ninety (90) days from the date of delivery to you as evidenced by a copy of your invoice. However, FRSI does not warrant that the functions contained in the program will meet your requirements or that the operation of the program will be uninterrupted or error free. THE PROGRAM AND RELATED MATERIALS ARE PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU, SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE ENTIRE COST OF ALL NECESSARY SERVICING, REPAIR, OR CORRECTION.

LIMITATIONS OF REMEDIES: FRSI's entire liability and your exclusive remedy shall be: (1) the replacement of any media not meeting FRSI's "Limited Warranty" and which is returned with a copy of your invoice to Fisher-Rosemount Systems, Inc., 12000 Portland Avenue South, Burnsville, Minnesota 55337, or (2) if FRSI is unable to deliver replacement media which is free of defects in materials or workmanship, you may terminate this Agreement by returning the program and your money will be refunded. IN NO EVENT WILL FRSI BE LIABLE TO YOU FOR ANY DAMAGES ARISING OUT OF ANY CAUSES WHATSOEVER (WHETHER SUCH CAUSES BE BASED IN CONTRACT, NEGLIGENCE, STRICT LIABILITY, OTHER TORT, PATENT INFRINGEMENT, OR OTHERWISE), INCLUDING ANY LOST PROFITS, LOST SAVINGS, OR OTHER INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE SUCH PROGRAM EVEN IF FRSI HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES, OR OF ANY CLAIM BY ANY OTHER PARTY.

GOVERNING LAW: This Agreement, and all matters concerning its construction, interpretation, performance or validity, shall be governed by the laws of the State of Texas.

EXPORT RESTRICTIONS: Licensee shall comply fully with all laws, regulations, decrees and orders of the United States of America that restrict or prohibit the exportation (or reexportation) of technical data and/or the direct product of it to other countries, including, without limitation, the U.S. Export Administration Regulations.

U.S. GOVERNMENT RIGHTS: The programs and related materials are provided with "RESTRICTED RIGHTS." Use, duplication or disclosure by the U.S. Government is subject to restrictions set forth in the Federal Acquisition Regulations and its Supplements.

GENERAL: You may not sublicense, assign, or transfer the license or the program and related materials without the prior written consent of FRSI. Any attempt otherwise to sublicense, assign or transfer any of the rights, duties, or obligations hereunder without such consent is void.

Should you have any question concerning this Agreement, please contact your FRSI representative or sales office.

YOU ACKNOWLEDGE THAT YOU HAVE READ THIS AGREEMENT, UNDERSTAND IT, AND AGREE TO BE BOUND BY ITS TERMS AND CONDITIONS. YOU FURTHER AGREE THAT IT IS THE COMPLETE AND EXCLUSIVE STATEMENT OF THE AGREEMENT BETWEEN US WHICH SUPERSEDES ANY PROPOSAL OR PRIOR AGREEMENT, EXCEPT THE MASTER LICENSE AGREEMENT, ORAL OR WRITTEN, AND ANY OTHER COMMUNICATIONS BETWEEN US RELATING TO THE SUBJECT MATTER OF THIS AGREEMENT. YOU AGREE THAT FRSI MAY AUDIT YOUR FACILITY TO CONFIRM COMPLIANCE OF THE FORGOING PROVISIONS.

Comment Form

RS3™ Manuals

Software Discrepancy Notes

10P56870101

Please give us your feedback to help improve this manual.

	Never	Rarely	Sometimes	Usually	Always
1. Do you actually use this manual when you are:					
• configuring	_____	_____	_____	_____	_____
• making changes or enhancements	_____	_____	_____	_____	_____
• operating the system	_____	_____	_____	_____	_____
• troubleshooting	_____	_____	_____	_____	_____
• other _____	_____	_____	_____	_____	_____
2. Does this manual answer your questions?	_____	_____	_____	_____	_____
3. What could be changed in this manual to make it more useful?					

Errors and Problems: Please note errors or problems in this manual, including chapter and page number, if applicable; or send a marked-up copy of the affected page(s).

May we contact you about your comments? Yes No

Name _____

Company _____

Phone _____

Date _____

Fisher-Rosemount FAX #: (612) 895-2044

Thank you!

Name _____
Company _____
Address _____

Place
stamp
here

Fisher-Rosemount Systems, Inc.
RS3 User Documentation
Mail Station G30
12000 Portland Avenue South
Burnsville, MN 55337
U.S.A.

FISHER-ROSEMOUNT

RS3™

Software Discrepancy Notes

About This Manual

This document provides information about Version P1, Release 1.1 software and hardware discrepancies. The PCR number is a reference number for the discrepancy. Use this number when asking your Fisher-Rosemount support representative about a particular discrepancy.

The reported discrepancies are grouped by RS3 family product and discrepancy rating. The following RS3 products are covered in this document:

- Batch
- CP
- Comm
- Console
- Controller
- Documentation
- I/O

The rating numbers indicate the relative order of significance of discrepancies. For example, a discrepancy rating of D3 is more significant than a rating of D4.

Changes for This Release

There have been no significant organization changes to this manual.

Revision Level for This Manual

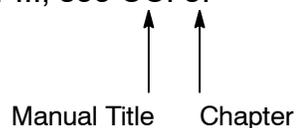
For This Software Version:	Refer to This Document:		
	Title	Date	Part Number
P1R1.1	Software Discrepancy Notes	October 1996	10P56870101
P1R1.0	Software Discrepancy Notes	May 1996	1984-2818-0311
18R2.4	Software Discrepancy Notes	October 1995	1984-2818-0309
18R2.3	Software Discrepancy Notes	June 1995	1984-2818-0308
18R2.2	Software Discrepancy Notes	April 1995	1984-2818-0307
18R2.1	Software Defects Manual	January 1995	1984-2818-0306
18R2	Software Defects Manual	October 1994	1984-2818-0304
18R1	Software Defects Manual	October 1993	1984-2818-0302
17R2	Software Defects Manual	December 1992	1984-2817-0302
17R1	Software Defects Manual	June 1992	1984-2817-0301

References to Other Manuals

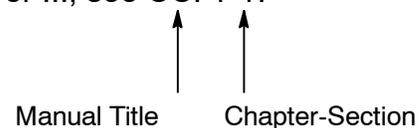
References to other RS3 user manuals list the manual, chapter, and sometimes the section as shown below.

Sample Entries:

For ..., see CC: 3.



For ..., see CC: 1-1.



Abbreviations of Manual Titles

- AL** = Alarm Messages
- BA** = ABC Batch
- BQ** = Batch Quick Reference Guide
- CB** = ControlBlock Configuration
- CC** = Console Configuration
- CQ** = Configuration Quick Reference Guide
- DT** = Disk and Tape Functions
- IF** = Intelligent Fuzzy Logic Control Manual
- IO** = I/O Block Configuration
- IT** = Intelligent Tuner Manual
- OP** = Operator's Guide
- OV** = System Overview and Glossary
- PW** = PeerWay Interfaces
- RB** = Rosemount Basic Language
- RI** = RNI Release Notes and Installation Guide
- RP** = RNI Programmer's Reference Manual
- SP** = Site Preparation and Installation
- SQ** = Service Quick Reference Guide
- SV** = Service

Reference Documents

Prerequisite Documents

You should be familiar with the information in the following documents before using this manual:

<i>System Overview Manual and Glossary</i>	1984-2640-21x0
<i>Software Release Notes, Performance Series 1</i>	10P56870101
<i>Software Loading and Upgrade Procedure, Including Batch</i>	10P56870201

Related Documents

You may find the following documents helpful when using this manual:

<i>ABC Batch Quick Reference Guide</i>	1984-2818-1103
<i>ABC Batch Software Manual</i>	1984-2654-21x0
<i>Alarm Messages Manual</i>	1984-2657-19x1
<i>Configuration Quick Reference Guide</i>	1984-2812-0808
<i>Console Configuration Manual</i>	1984-2643-21x0
<i>ControlBlock Configuration Manual</i>	1984-2646-21x0
<i>I/O Block Configuration Manual</i>	1984-2645-21x0
<i>Operator's Guide</i>	1984-2647-19x1
<i>PeerWay Interfaces Manual</i>	1984-2650-21x0
<i>RNI Programmer's Reference Manual</i>	1984-3356-02x1
<i>RNI Release Notes and Installation Guide</i>	1984-3357-02x1
<i>Rosemount Basic Language Manual</i>	1984-2653-21x0
<i>Service Manual, Volume 1</i>	1984-2648-21x0
<i>Service Manual, Volume 2</i>	1984-2648-31x0
<i>Site Preparation and Installation Manual</i>	1984-2642-21x0
<i>Software Discrepancies for Performance Series 1</i>	10P56870301
<i>User Manual Master Index</i>	1984-2641-21x0

Section 1:

Version P1 Open Discrepancies

ID	Description	Rating
Batch 100962	<p>RBL continue instruction will not work unless there is a blank line after the while, until, or for loop.</p> <p>If a continue instruction is used in a while, until, or for loop, the script must have a blank line after the loop. If there is an instruction line after the loop, execution jumps to that line, discontinuing the loop.</p>	D3
Batch 101085	<p>RBL prompt instruction prevents execution of some on traps.</p> <p>The following traps will not trip while the script is executing lines indented under a prompt instruction:</p> <p>on no_backup on power_up on unacquire</p> <p>However, these three traps are executed as soon as the task completes the prompt instruction routine.</p>	D3
Batch 101296	<p>In the default setting, the Batch Configuration Restore operation restores all 32 nodes.</p> <p>In the default setting, the Batch Configuration Restore operation restores batch files on all 32 PeerWay nodes. If you save a limited range of batch files and only want to restore those files, remember to change the default setting to the range you want before restoring.</p>	D3
Batch 101784	<p>Loss of slave task results in vague message when there is no on lost slave trap.</p> <p>If:</p> <p>two tasks are in an acquire/release relationship, and</p> <p>the master task loses a slave task when there is no on lost slave trap configured in the master task script,</p> <p>Then:</p> <p>the master task halts execution and the following message is generated:</p> <p>hold(OK)</p> <p>The operator may have no idea what this message means.</p> <p>WORKAROUND:</p> <p>You should always use on lost_slave and on lost_master traps for tasks in acquire/release relationships. You can also include customized alarms within the on traps to inform the operator of the problem in more explicit terms.</p>	D3

ID	Description	Rating
Batch 150082	PeerWay boot of a CP4 can crash CP4. If you attempt to perform a PeerWay boot of a CP4, and you do not enable the nonvolatile memory within three minutes, the CP4 will crash.	D3
Batch 150578	When you add a new entry in the Batch Operations Table, the cursor does not position correctly on "Unit Name". When you add a new entry in the BAUT, the cursor drops onto the "Model" field. It should, for ease of use, drop on the "Unit Name" field.	D3
Batch 150684	Working Recipe truncates display variables over 12 characters. You can enter up to 5 characters of text, leaving only 7 characters for the actual display variable. Display variables over 12 characters are not truncated on the Batch Monitor screen.	D3
Batch 151420	"Major" status shows wrong line number on the BAO, BAR, and BAM Displays. The status line has two problems when showing the "Major" status: The line number for the major phase is the offset from the top of the script and not the offset from the start of the phase. There is no separator between the phase name and the line number so that the status Phase one at script line 14 appears as "Phaseone14".	D3
Batch 152161	After upgrade from Version 17 to Version 18, recipes previously converted from ASCII use the default batch configuration. On recipes upgraded from Version 17 to Version 18, recipes converted from ASCII contain the default BAC information. The original information in the recipe is replaced by the default batch configuration information. WORKAROUND: Use one of the following methods to restore the correct BAC information to the recipe. Convert the recipe from ASCII before saving it. This workaround requires that the ASCII version of the recipe still resides on the disk. or On the Recipe Information Menu, press [SELECT] on the "Update Batch Config" field.	D3
Batch 152186	Nuisance "Batch forced bubble backup" alarm generated when run_recipe or begin_recipe instruction executed. This message is typically seen if the recipe takes over 30 seconds to start.	D3
Batch 152336	The run_recipe instruction takes too long to start up the recipe. The run_recipe instruction takes between 35 and 50 seconds to start up a recipe.	D3

ID	Description	Rating
Batch 152428	Trackball interrupts ASCII conversion of table. If you move the trackball when overwriting an ABC Batch table from an ASCII file, ASCII conversion stops. The following message appears: Press Enter to Abort. If you want to continue ASCII conversion, ignore this message. Press [SELECT] to continue ASCII conversion.	D3
Batch 152484	On the Master Recipe Config Info screen, you cannot scroll available Formula Table names in the "Formula Tbl" field with the [NEXT OPTION] key. You must type an existing Formula Table name and enter it.	D3
Batch 152635	The display instruction cannot display recipe_local values. The display instruction does not parse if it contains a recipe_local instruction as a parameter.	D3
Batch 800049	The Batch Monitor screen might display an incorrect name for an alias array (aliasdim). The aliasdim value is correct.	D3
Batch 800417	Variables used in display statements do not appear in the icon variables window on the Batch Working Recipe screen. The variables are correctly displayed on the batch monitor screen and the graphics batch faceplate (BFACE), but are not displayed at all on the working recipe.	D3
Batch 800535	V18R1 End icons are not upgraded to End-Recipe icons in V18R2. End icons will not cause problems in the Main Recipe. However, an End icon in a Unit Recipe will cause the recipe to hang when the End icon is executed. You should replace all End icons with End-Recipe icons, either directly in the recipe or in delimited ASCII text in an ASCII file on a pc.	D3
Batch 800538	A modified start script for a unit with a warn validation halts the recipe when it is executed. WORKAROUND: To continue, unblock the recipe with the "Unblock" command.	D3
Batch 800552	You cannot call up Finished recipes created before a console reboot. Finished recipes in the ABC Log Folder are not updated with the new boot time. After the boot, you cannot select on a Finished recipe or enter the BACR:filename to call it up WORKAROUND: Copy the finished recipe to a new file. Then call it up using the new file name.	D3
Batch 800561	If you lock a Unit Recipe, the Unit-Recipe status does not display the locked status until the trackball is moved.	D3
Batch 800584	RBL status_task instruction sometimes returns incorrect status values. Sometimes, the status values returned by status_task do not match actual task and recipe execution states.	D3

ID	Description	Rating
Batch 800599	<p>A “Warning: Primary file not found” message sometimes is displayed during ASCII file conversion of the Master Recipe.</p> <p>This message is displayed until the ASCII file conversion is completed or the trackball is moved. If you move the trackball during ASCII conversion, the Print menu displays either a “Suspended” or “Writing” message.</p>	D3
Batch 800661	<p>Overwrite from ASCII fails for Formula Tables.</p> <p>Selecting “Overwrite Table” on a formula table fails, causing the “Create Table” button to appear. Selecting “Create Table” successfully creates the Formulas Table from ASCII.</p>	D3
Batch 800680	<p>In V18R2, recipes updated from ASCII files are corrupted if the primary volume is changed.</p> <p>If you change recipe volumes on the Batch Configuration screen, recipes are updated correctly from ASCII on the new volume pair. However, because the ASCII file has a record of the volume pairs before the change, it will overwrite recipes on the volumes no longer in use (your local volume). The recipes on those volumes are corrupted.</p> <p>WORKAROUND: You have two choices:</p> <ol style="list-style-type: none"> 1) Edit volume addresses on ASCII files to match the Batch Configuration screen before you update recipes from the ASCII files. 2) Update recipes from ASCII files on the new volumes and delete corrupted recipes from the Data folder on the volumes no longer in use. <p>Remove all corrupted recipes from your local volume.</p>	D3
Batch 800684	<p>You cannot enter operations in the COMM_OP icon on the Control Recipe.</p> <p>ABC allows you to enter operations in COMM_OP icons only on the Master Recipe. However, the Modify window on the Control Recipe displays an operation change field, which makes it appear as though you can change operations in the COMM_OP icon. This is a flaw in the interface design.</p>	D3
Batch 800685	<p>When you leave the Batch Working Recipe, a false error message might appear.</p> <p>You may see error messages such as “Can’t communicate with unit recipe MAIN” even though the Working Recipe is running correctly. Ignore these messages.</p>	D3
Batch 800709	<p>Alternate links after a Start-UR icon are sometimes displayed as parallel links.</p> <p>An alternate line after a Start-UR icon is sometimes used to select an alternative action if the batch unit is not available. In this way, it functions like a Decision icon. The alternate link is sometimes displayed as parallel lines, even though it does not provide parallel functionality.</p>	D3
Batch 800721	<p>Recipe validation does not detect modifications to Unit Table entries referenced by recipe icons that use Unit Sets.</p> <p>Unit Sets provide the capability to dynamically select the unit train for a particular batch execution. The mapping of the units does not preserve the unit modification checksum in the icon. The new checksum of the modified Unit Table entry is mapped into the icon so no checksum difference is detected.</p>	D3
Batch 800743	<p>When a Master Recipe on the backup volume is copied with a new name it is copied correctly on the backup volume but corrupted on the primary volume.</p> <p>The copy on the primary volume is corrupted.</p>	D3

ID	Description	Rating
Batch 800766	<p>Scrolling the Master Recipe screen horizontally might cause blank spaces where Unit Recipes are supposed to appear.</p> <p>This problem occurs when a Master Recipe includes a large number of Unit Recipes that exceed several screen widths.</p>	D3
Batch 800774	<p>BARCPW Object (Recipe Viewing Window) does not display the first icon in a recipe if the recipe size is set to less than 50% of full size.</p>	D3
Batch 800785	<p>Decision labels for Decision icons are not visible on the BARCPW object (Recipe Viewing Window).</p>	D3
Batch 800791	<p>When the Main Recipe attempts to execute a Start-UR icon for a locked Unit-Recipe, the batch log falsely reports that the recipe is in Static.</p>	D3
Batch 800813	<p>On the Batch Operations Table, the cursor does not automatically move to the operation name when you create a new operation.</p> <p>The cursors moves near to the new operation. You must move it the remaining distance with the track ball.</p>	D3
Batch 800840	<p>In recipes, creating parallel links below other parallel links can cause confusion.</p> <p>When parallel links are joined by previous parallel links, predecessor links for icons are often difficult to distinguish. Your configuration might not execute in the order you think it should. You should attempt to avoid this type of configuration. If do join parallel links with parallel links, you can use the Next, Prev, and Both toggle fields to trace links. For more information on tracing links or information on configuring the master recipe, see BA: 3-4.</p> <p>WORKAROUND: To avoid this problem, configure all icons in the second parallel set so that it is clear which icons in the first parallel set are predecessors of icons in the second parallel set. BA: 3-4 includes an example of proper and improper linear and confluent links.</p>	D3
Batch 800911	<p>Batch task configuration is wiped when upgrading from v18r2 to v18r2.1.</p> <p>WORKAROUND: You must reload the batch configurations. Before you upgrade to V18r2.1, save your batch task configurations by performing a "Batch Config Save" operation. Open the Batch Task folder and use the "Batch Config Restore" operation to restore batch configurations that have been wiped. For more information, see the V18R2.1 Upgrade Manual.</p>	D3
Batch 800933	<p>You cannot lock a unit recipe when the Working Recipe is in Static mode.</p> <p>You can lock the Unit Recipe if the Working Recipe is in Normal mode.</p>	D3
Batch 801029	<p>The status_task instruction returns -7 instead of -4 for a finished task.</p>	D3
Batch 801166	<p>When exchanging parallel icons, the recipe exchange command might exchange branches as well as the icons.</p> <p>This problem is rare and can easily be corrected by reediting the icon links.</p>	D3

ID	Description	Rating
Batch 801288	<p>In an ABC Batch recipe, deleting an icon in a decision icon path causes the decision paths to shift position.</p> <p>This PCR includes a correction to PCR 801166. PCR 801166 reported, "When exchanging parallel icons, the recipe exchange command might exchange branches as well as the icons. This problem is rare and can easily be corrected by reediting the icon links." The PCR 801166 problems is related to the the delete problem in PCR 801288 because the exchange operation performs an icon delete and insert. Contrary to the PCR 801166 report, the branches are exchanged every time you exchange or delete parallel icons.</p>	D3
Batch 801305	<p>When a control recipe is printed using the graphic print option, not all of the icons are printed.</p>	D3
Batch 801350	<p>If the CP switches or the CP/SRU crashes during the execution of a start-UR icon or at the start of a unit recipe, you may need to recover the recipe.</p> <p>The main recipe sends a start message to the unit recipe task. If the CP crashes or switches, the nonvolatile image will predate the start message when the CP comes back up. Batch will attempt to restart the recipe. If the unit recipe is already running, the start message fails and the main recipe is suspended in Static mode.</p> <p>WORKAROUND:</p> <ol style="list-style-type: none"> 1. Remove the start_UR icon. 2. Restart the main recipe. <p>If the start-UR icon is running when the cp crashes or switches, the CP cannot automatically restart it because the recovered nonvolatile image predates the start of the unit recipe.</p> <p>WORKAROUND:</p> <ol style="list-style-type: none"> 1. Put the main recipe into Static mode. 2. Copy the start-UR icon to a parallel link after the start recipe icon. NOTE: Do not place the start-UR icon on an alternate fail path. The parallel link must have a return path to the main branch. 3. Restart the main recipe. 	D3
Batch 801407	<p>Batch Material Tables lose high and low limits for all properties when the table is overwritten from an ASCII file.</p> <p>The Materials Table may lose high and low limits during an upgrade from an earlier software version, since the table is converted from ASCII during the upgrade procedure. The problem has been observed when ABC Batch is upgraded to V18.04 from V17.06, V18.1, and V18.22.</p>	D3
Batch 801838	<p>New batch unit set gets created on primary but not on backup node. This should happen automatically.</p> <p>WORKAROUND: Once you create the table, copy it to backup.</p>	D3
Batch 801867	<p>On a BFACE Object the STAT/NORM field displays Normal for normal mode and Overflow for static mode.</p> <p>The status field says "overflow" for static mode; it should say "static".</p>	D3
Batch 101058	<p>Batch alarms do not display task tags.</p>	D4

ID	Description	Rating
Batch 101082	Virtual arrays accept decimal numbers as indices. Using decimal numbers as indices in virtual arrays puts the value in the wrong storage location. For example, the following entry $x(2.2,3.3)=1$ puts 1 in $x(2,5)$. However, you can retrieve the 1 by using $x(2.2,2.3)$.	D4
Batch 101104	Some RBL instructions cannot use virtual arrays as parameters. For example, <code>input("Entry",virtual(0,0))</code> generates the error message (hold) RBN bad: line x. RBL instructions that cannot use virtual arrays as parameters include: <code>input</code> , <code>val</code> , <code>fag2byte\$</code> , <code>gettime</code> , and <code>puttime</code> .	D4
Batch 101786	RBL acquire instruction returns a -1 status for lost and then found slave. The following condition was observed. A slave task was terminated and then restarted. When the master task attempted to acquire the slave task again, the acquire instruction returned a status of -1, which indicates that the acquire request was logged in the slave task request queue when this was not the case.	D4
Batch 101845	CP reboot might hang master task. If a CP reboot hangs a master task, the following message is generated: ACQUIRE ERROR (FATAL). WORKAROUND: You must kill and restart the master task.	D4
Batch 102977	In a reported incident, batch tasks locked up when a PLC failed.	D4
Batch 150737	Multiple tasks that are manipulating string variables can use up available memory. Too many tasks executing too many string variables can cause batch batch to run slow or suspend execution.	D4
Batch 151025	Batch Working Recipe icons do not turn red if the task halts or does not start due to a download retry condition. On the Working Recipe, red indicates a run time error.	D4
Batch 151229	RBL instructions with retry modes can cause other instructions to execute again. Do not include instructions with retry modes on the same script line with other instructions. They can cause other instructions on the same line to execute again each time they retry. For example, in the following script line, the open instruction will repeat execution until the alias is available: <pre>if (~open(1,"REC","PAINT")&alias)</pre>	D4
Batch 151400	Dot operators for I/O blocks do not return correct data.	D4
Batch 151424	Too many master requests in a slave task acquire queue can crash a CP or SRU. If a slave task has more than 44 master requests in its slave queue, the CP or SRU crashes when you call up the Batch Acquire Queues screen.	D4

ID	Description	Rating
Batch 151435	Child script in halt or step mode starts when an on unowned_unit trap in a start script completes execution.	D4
Batch 151447	If you start a recipe with insufficient volatile memory available, the task will hang while trying to download the unit script. This problem occurs when you start a recipe with the run_recipe instruction.	D4
Batch 151489	Repeatedly moving between two Input screens with the Active Alarm key can cause a nesting error. Nesting errors occur when you exceed 40 nesting levels.	D4
Batch 152193	Alias arrays are not allowed in RBLC Scripts. Alias arrays (aliasdim) are not allowed in RBLC Scripts. Attempting to parse them will crash the console.	D4
Batch 152317	Infrequently, the Batch Script screen cannot find a script on the backup disk if the script is deleted on the primary disk.	D4
Batch 152534	RBL alias arrays with link scaling applied are not displayed correctly by the display instruction. The display instruction does not correctly handle link scaled values. The value may be off by a factor of 100, and in some cases bounces back and forth between two values.	D4
Batch 152627	Using redundant virtual arrays as parameters in some instructions halts the script and flood the Batch Log with error messages. Instructions that cannot use the redundant virtual array (rvdim) as a parameter include getmaterial, putmaterial, whois and wait_bid.	D4
Batch 152707	RS3 private virtual string arrays (vstringdim) are not allowed in Version 18 batch scripts. This presents a problem for users converting Version 17 scripts with private vstringdim arrays to Version 18 scripts. When you call up a Version 17 script with a private vstringdim and attempt to save it as a Version 18 script, the private vstringdim is backlighted in red. Change it to a shared vstringdim and save the script again.	D4
Batch 152736	Recipe cannot validate 10 or more unit process icons in a series. The console generates the message "Error: Recipe validation stack full."	D4
Batch 152744	The usegraphic instruction does not work correctly with notify and renotify instructions. The notify and renotify instructions generate the message "Batch Graphic waiting for input." However, the [Active Alarm] key does not call up the graphic specified in the usegraphic command.	D4
Batch 152747	Recipe execution states and modes can be changed from a console that does not own the plant unit for the node running the recipe. The following modes and states can be changed: Static, Restart, QRestart, Block, Unblock, Halt, Cont, Next, Retry, Stop, Abort, Hold, and Resume. Kill is the only command that is prevented.	D4

ID	Description	Rating
Batch 152752	<p>Redundant virtual array file might not be created on backup disk after a power up.</p> <p>If you power up either the primary or backup disk while a redundant virtual array (rvdim or rvstringdim) is copying to a file, the copy will fail. On the backup disk, the outdated backup copy is deleted and no new one is created in place of it.</p> <p>WORKAROUND: Manually back up the file from the primary disk to the backup disk.</p> <p>or</p> <p>Leave the script, halt the task executing rvdim or rvstringdim, and then run a redundancy verification test to determine if files on the primary and backup nodes are redundant.</p>	D4
Batch 152763	<p>A return instruction indented under a prompt instruction does not interrupt the prompt instruction.</p> <p>The return instruction should interrupt the prompt and trigger an on nest_err trap.</p>	D4
Batch 152767	<p>On the Master Recipe, it is possible to enter an incorrect formula value type for a parameter.</p> <p>The formula value type should match the parameter type.</p>	D4
Batch 152769	<p>On the Batch Units Table, attempting to add more than 256 units generates a confusing error message.</p> <p>The error message says "Bad Disk," and the "Start/Search" field shows a batch unit count of 21000.</p>	D4
Batch 152794	<p>You cannot use a new Batch Operations Table unless you enter one parameter in at least one operation.</p> <p>If the parameter file does not exist, you cannot create an operation in a master recipe.</p> <p>WORKAROUND: Enter the name of the Parameters file in the "Parameters File" field and then add at least one parameter to an operation in order to create the parameters file.</p>	D4
Batch 152798	<p>An unsuccessful array copy generates an incorrect return status.</p> <p>In a test, the following array_copy instruction returned a successful status of 1, even though the array dimensions were out of range and the copy failed.</p> <pre>shared dim DIM2(10,14) private dim DIM3(5,28) rs=array_copy(DIM2,DIM3,0,10,12,12,12,3,25)</pre>	D4

ID	Description	Rating
Batch 160007	<p>Task executes a line twice after break instruction.</p> <p>For example, given the following script,</p> <pre>wrong=3 if 1 for x=1,x<=3,x=x+1 do something break wrong=wrong-1</pre> <p>The batch will execute “wrong=wrong-1” twice after you execute the break command on the Batch Monitor screen.</p> <p>WORKAROUND: Put a blank line between break (the last line in the loop) and “wrong=wrong-1” (first line after loop).</p>	D4
Batch 160010	<p>Variable conversion option %d must be followed by a blank space.</p> <p>If the variable conversion option %d does not have a blank space after it, it will result in a garbage value. In the following print instruction, the %d has a blank space after it and will print the correct value.</p> <pre>print(1,"Value = %d ",val)</pre>	D4
Batch 800110	<p>Nested gosub instruction will not execute unless preceded by a blank line.</p> <p>A goto instruction in a while, for, or until loop will not execute unless it is preceded by a blank line. For example:</p> <pre>while TEST~=2 loop=loop+1 prompt print(*,"Report Line") if (TEST==1) sleep(3) gosub CONT</pre>	D4
Batch 800178	<p>RBL prompt loop continues execution when you leave the Batch Input Screen.</p> <p>If you leave the Batch Input screen, instructions indented under a prompt instruction continue execution. There is no warning or message that this is occurring.</p>	D4
Batch 800311	<p>250 shared string variables in a batch script might cause a terminal bus error.</p> <p>This problem will not occur with 249 shared string variables or less.</p>	D4
Batch 800366	<p>Notify is lost during a CP switch.</p> <p>If a CP switch between the primary and backup CPs occurs, the notify instruction is interrupted. Once notify is interrupted, you cannot enter data from the graphic to the RBL script. The script waits endlessly for input.</p> <p>WORKAROUND: You must kill the script task in order to proceed.</p>	D4

ID	Description	Rating
Batch 800553	<p>If you change the tag mask on the Batch Configuration screen but do not update the recipe, Unit Recipes will not change colors when executed.</p> <p>The Unit Recipes icons will display blue, which indicates that they have not started, even when they are actually executing.</p>	D4
Batch 800741	<p>A unit recipe might run even if it is locked.</p> <p>The Unit Recipe might ignore a “Lock” command and run anyway if the lock command is executed between icon status updates. This period is usually less than 5 seconds.</p>	D4
Batch 800984	<p>The console might hang if a recipe conversion from ASCII fails.</p> <p>One case in which recipe conversion from ASCII might fail and hang the console is if there is a parameter in the recipe that is not in the Operations Table. The command “overwrite from ascii” will fail. Do not delete parameters from the Operations Table without also deleting them from the recipe. Do not add parameters that are not in the Operations Table.</p> <p>WORKAROUND: If the console hangs during ASCII file transfer, reboot the console.</p>	D4
Batch 800989	<p>Console crashes if you try to delete icon #0 on the Master Recipe.</p> <p>If you call up the Delete Icon window when no icon is selected, a 0 appears in the “Icon” field. If you press [SELECT] on the “Accept” field with the 0 in the “Icon” field, the console crashes.</p>	D4
Batch 800995	<p>If there are 24 or more working recipes in abc log folder, you cannot start another recipe if auto delete is configured.</p> <p>Auto delete is configured in the Batch Configuration screen (BAC:). The use of 24 simultaneous Working Recipes in the same ABC Data folder is very unlikely in most batch configurations.</p>	D4
Batch 801022	<p>If the primary and backup node go down when a Working Recipe is running, the console might hang.</p> <p>The console does not recover even after the primary or backup node reboots. The console must be rebooted. This scenario only occurs if the primary and backup volumes are on different nodes than the console on which the Control Recipe resides.</p> <p>This problem was observed on a batch system in which the primary volume was down when the Working Recipe was started. The Working Recipe was running only on the backup volume when the backup volume went down.</p> <p>WORKAROUND: Reboot the console.</p>	D4
Batch 801049	<p>If you delete a Unit Recipe, the Unit Recipe name is deleted from the Start-UR icon and cannot be added back to the icon.</p> <p>The recipe will not validate. You must delete the Start-UR icon to validate it.</p>	D4
Batch 801054	<p>In rare cases following a task crash, the Batch Log screen might indicate incorrectly that a virtual array file name caused the crash.</p> <p>This problem is very rare and has only been seen once. The Batch Log screen indicated that an incorrect virtual array name caused the crash, even though the script did not contain a virtual array. The cause of this discrepancy is unknown at this time.</p>	D4

ID	Description	Rating
Batch 801057	<p>When writing a character string to a string variable, the write might overwrite existing characters with null characters.</p> <p>For example, the following assignment overwrites position 8 in the string variable with a null character.</p> <pre>shared string detail\$ detail\$="123456789012345678901234567890" detail\$(0,8)=TIME\$</pre>	D4
Batch 801069	<p>A CP reboot or CP switch will confuse the working recipe if the PeerWay is slow or bad.</p> <p>Problems can include multiple static marks on the recipe, icons that are the wrong color, banners that display "Task not found", and other graphic anomalies.</p>	D4
Batch 801094	<p>Running the same recipe simultaneously may cause the first recipe run to delete if the ABC Log folder is near full.</p> <p>Running the same recipe simultaneously or "back-to-back" can be an efficient use of batch resources. By executing a second Unit_Process icon, the first recipe run can switch to another CP task freeing up the starting task for the next run of the recipe. However, problems have been observed with this method when the ABC Log folder is nearly full and auto delete is on. (Auto delete is set on the Batch Configuration screen.) The first Working Recipe may be deleted before it has finished executing. If you use the back-to-back method, monitor available space in the ABC Data folder carefully.</p>	D4
Batch 801157	<p>A Control Recipe created from another Control Recipe might inherit the original Control Recipe validation status without having been validated.</p> <p>The error can occur when a Master Recipe is created from a Control Recipe and that Master Recipe is used to create a second Control Recipe. In the case observed, the new Control Recipe inherited a unit set index from the original Control Recipe, which had passed validation in the original Control Recipe. Consequently, the new Control Recipe displayed a "Runnable" status, even though it had not been validated.</p>	D4
Batch 801159	<p>Changing the console volume name can corrupt recipes.</p> <p>WORKAROUND: Before changing console names, configure a backup volume on the Batch Configuration screen and backup the primary volume to the backup volume to protect your recipe files. However, this solution requires that you have access to a console volume to use as a backup.</p>	D4
Batch 801348	<p>If a disk write fails, the working recipe displays incorrect icon colors.</p> <p>The Working Recipe might display incorrect icon colors if:</p> <ol style="list-style-type: none"> 1. The console is down during an icon color change. 2. The message to the disk is interrupted by a CP switch. 3. The PeerWay message is not received by the disk. 4. The console disk/PeerWay buffer is overloaded. 	D4

ID	Description	Rating
Batch 801364	<p>If the CP is rebooted more than once during recipe execution, the start task might fail to recover.</p> <p>The CP generates a "(FATAL) RPN bad" message for task 33. The batch log displays the following entries:</p> <pre> tag: Symbol remerging unsuccessful tag: Batch task CRASHED node: Fatal Recipe Start error tag: Recipe put in static, start task failed node:slot Batch FATAL runtime error </pre>	D4
Batch 801435	<p>Some of the new batch commands added for ProAudit parse in RBLC script types but should not.</p>	D4
Batch 801891	<p>Traps firing between the "endchain" and reload of parent script may cause the wrong line to execute in the parent task.</p> <p>Do not use global on-traps in child scripts. If using a ControlBlock-triggered on-trap, disable the trap at the ControlBlock when exiting the child script.</p>	D4
Batch 801892	<p>Batch function Byte2Flag function does not work for blocks over =xx-100, but it does work for blocks =xx-01 to =xx-100.</p>	D4
Batch 801894	<p>The Comm-Op operations in ABC Batch can sometimes "miss" their align statements and cause the batch to be wrong.</p> <p>The use of goto and label icons to loop around a comm-op icon can cause problems. There is no differentiation between each instance of execution. The workaround is to modify the align_on string for each iteration through the loop: alstr\$ = print\$("%s.%d", "any_string", loopcount) to get any_string.1, any_string.2, any_string.3,...</p> <p>This fixes one occurrence of this problem.</p>	D4
Batch 802048	<p>A batch script gets a nesting error after executing the same statement many times.</p> <p>A batch script gets a nesting error if the user repeatedly (more than 40 times) calls up the input screen or graphic with a batch input window, ignores the request for input, and leaves the screen.</p>	D4
Batch 802264	<p>Only 2 Comm-op icons are allowed to use the same Channel name.</p> <p>Attempting to copy one of a Comm-op pair is not allowed, as it would create a third icon with the same Channel name.</p>	D4
Batch 802373	<p>Unit recipes will not run when batch tag mask in recipe differs from tag mask on BAC.</p>	D4
Batch 802538	<p>Put a recipe into static, restart it, next unit recipe to start will go into static, with no entry in batch log.</p>	D4
Batch 802868	<p>File locking problem with batch scripts.</p>	D4

ID	Description	Rating
Batch 803046	kill_task, begin_task do not work on pw 30.	D4
Batch 803215	Stop_task() instruction fails if subject task is chaining (or endchaining) This prevents Ed L.'s recipe sequencer (euro-batch) from working.	D4
CP 150605	Node Dumps are not always saved consecutively Node Dump screens are not necessarily stored in the order they occur. The ControlFile can store up to 8 node dumps. When the 9th node dump is saved, another one is deleted. However, the deleted node dump may not be the oldest one.	D3
CP 160049	Downloading an incorrect image (CP4, RBLC2, or MPC2) to a CP2 crashes the CP.	D3
CP 160052	Attempting to boot a MPC1 controller with an MPC2 image can hang the PeerWay. If you install an MPC1 controller in a ControlFile with an MPC2 image in NV memory, the image begins to download and then hangs. The ControlFile PeerWay LEDs flicker rapidly and the PN screen locks up. You have to reboot the CP with a correct image.	D3
CP 101972	Redundant CP cannot see all slots. If: the system is under normal operation and you turn off the primary Controller Processor, the redundant Controller Processor, or both Controller Processors, Then: four minutes later a "Redundant CP Can't See All Slots" message is generated for the Controller Processor(s) that was turned off, and the redundant CP is shown in alarm on the ControlFile Status screen. NOTE: If the Controller Processor was actually bad, the "Controller Fault" message would also be displayed. WORKAROUND: To clear the alarm message: Turn off the Controller Processors and the NVRAM Memory card. Pull the Controller Processors and the NVRAM Memory card and then reinsert them.	D4
CP 150720	A short high on A(5) can cause redundant controllers to switch back and forth continuously. Remove and replace the NV Memory card to halt switch. A short high on A(5) caused a redundant pair of controllers to switch continuously, even after the fault cleared. WORKAROUND: Pull the NV Memory card out and reinsert it in order to stop the switching action.	D4

ID	Description	Rating
CP 800293	<p>Some print parameters can cause a batch CP to lock up.</p> <p>The print command:</p> <pre>print(4,"SCF",SCxF,1)</pre> <p>caused the CP to lock up with lowest yellow LED ON and red LED ON. You have to pull the CP card out and reinsert it in order to clear.</p> <p>Removing the ,1 avoids the problem. The script parses without comment.</p>	D4
CP 800648	<p>NV Memory board in controlfile will give Spare Memory Chip Used message. It may not indicate a problem with the primary memory chip.</p> <p>The Spare Memory Chip Used message is occasionally displayed without a solid hardware failure. When this occurs, the message can be cleared by removing the battery jumpers on the NV Memory board, allowing the memory to be cleared, replacing the jumpers and reloading the images and configuration.</p>	D4
CP 801030	<p>Batch equations that perform logical "and" comparisons of block flag values and binary values do not work.</p> <p>For example, if the ControlBlock Q.v is displayed on the discrete faceplate, and it has flags p and a set (value 8001), the flagbit variable in the following equation receives a value of 0:</p> <pre>flagbit = (CB.3v&\$8000==\$8000)</pre> <p>If the same equation is used in a ControlBlock, flagbit receives a value of 1.</p>	D4
CP 801895	<p>During a CP switch, AIB comm errors intermittently occur on MAIO input points addressed "C". Seen on production floor using 1 second scan rate.</p>	D4
CP 803207	<p>CP failures during ROS stress testing.</p>	D4
CP 803233	<p>TAG_SEARCHes per CP: if >3 active, truncated tag search probably fails, if holding/waiting >5 tagsearches last one >8charTag, usually CRASH.</p>	D4
Comm 101005	<p>Console, SCI, and HIA file download.</p> <p>Using the Disk Activity screen, you can download a file to a console, SCI, or HIA without owning the device. Device ownership is configured on the Plant Status screen.</p>	D3
Comm 102159	<p>Disconnecting a closed HIA loop interrupts communication.</p> <p>If PeerWay HIAs are connected in a closed loop and the loop is disconnected at some point, the two HIAs on either side of the break in the loop are unable to communicate with each other. You, in effect, create two physically isolated PeerWays with the same PeerWay number, one on either side of the break in the PeerWay.</p> <p>If you need to disconnect one of the PeerWays at some point, you should first disconnect the PeerWay ring between HIA pairs.</p> <p>CAUTION: During normal plant operations, do not disconnect the HIA loop.</p>	D3

ID	Description	Rating
Comm 102204	<p>ControlFile on one PeerWay and the console on another may result in an HIA crash when multiple tasks are killed in batch.</p> <p>If there is a ControlFile on one PeerWay and a console on another, the HIA may crash if a console's batch task issues a large number of task kills. This causes a large number of batch log entries.</p> <p>PeerWay NET ERR and ADJUST errors increase. HIA status NROUTE and TIMEOUT numbers increase. The HIA crashes with "HIA COMM LINK FAILURE" alarms.</p> <p>WORKAROUND: Use the Configure Alarm Broadcast (CAB) screen to limit the number of alarm messages sent out over the PeerWay.</p>	D4
Comm 152549	<p>A very busy HIA or SCI can give erroneous OI NV Memory battery low alarms and may lock up under extreme load.</p> <p>A heavily loaded HIA or SCI with an OI NV memory may give incorrect "low battery" alarms. Under extreme load, the unit may lock up when the hardware performs the daily battery voltage test.</p>	D4
Comm 160070	<p>SCI volume name of all spaces causes other data to be overwritten when searching for the first non-blank character in volume name.</p>	D4
Comm 160073	<p>The highest numbered HIA on a PeerWay may crash under a heavy load.</p> <p>The highest numbered HIA on a PeerWay may crash under heavy loading. This has been observed with both bubble and OI NV memory in use.</p>	D4
Console 100849	<p>SRU does not trend TIB data correctly.</p> <p>When trending information from a TIB, the SRU uses the Eng Zero value instead of the block output value.</p>	D3
Console 101026	<p>Alarm lists do not record changes to system time.</p> <p>If you change the system time, the alarm lists do not indicate the time change.</p>	D3
Console 101116	<p>Node Dump screen.</p> <p>If the process graphic crashes, the Node Dump screen might not record the crash.</p>	D3
Console 101119	<p>BFACE graphic object on the edge of a process graphic.</p> <p>If a BFACE object is positioned on the edge of a process graphic, it might not be displayed.</p>	D3
Console 101122	<p>Moving a complex graphic can crash the console.</p> <p>Moving a complex graphic object on a process graphic might crash the console.</p>	D3
Console 101127	<p>Block Print Setup screen might print out a blank ControlBlock.</p> <p>On the Block Print Setup screen, if you print out a range of blocks that start with a ControlBlock, the first screen to print out is the Block Print Function screen or just an outline of the first ControlBlock in the range with no fields.</p> <p>WORKAROUND: Begin the block range with an I/O block or a ControlBlock that is not important for the data being collected.</p>	D3

ID	Description	Rating
Console 101134	On the Disk Folder Configuration screen, “Free Bytes” are sometimes wrong. On the Disk Folder Configuration screen, the “Free Bytes” field may show up to 153 K bytes of space available when actually there is no free space available.	D3
Console 101135	Console off-line diagnostics for pixel RAM errors is displayed in decimal. These values need to be displayed in hex to be of any use.	D3
Console 101144	No indication that batch is disabled on the SRU. If the batch is disabled on the SRU Status Screen and you try to start a task, or kill or perform any other function on a task, there is no error message to indicate what the problem is.	D3
Console 101145	BOX graphic object. On the BOX graphic object, the cursor appears on the Select Option window “Close” field.	D3
Console 101146	Changing the script type from Proc to RBLC causes problems in the same editing session. If you change the script type from PROC to RBLC, continue to edit the script, and then try to save the script, you will get the following error message: “Illegal script type and error on compilation. Script not written.” If you do a Ctrl R, the console will try to find the script and fail. If you leave the screen and come back, you will find your script name but without any of the edits that you performed after changing the type of script. WORKAROUND: Change the script type. Leave the screen. Go back to the screen and do your editing.	D3
Console 101155	MATH ControlBlock might not parse long equations. A MATH ControlBlock might not parse equations that are as long or almost as long as the maximum allowable equation length of 40 characters.	D3
Console 101165	ControlBlock equation Q.a =~A.u does not work. In a ControlBlock logic step, the equation, $Q.a =~A.u$ does not invert the A.u bits in the Q.u register.	D3
Console 101171	Unit command always calls up the Unit 1 display. The unit command (U D:) always calls up the unit display for Unit 1. It does not automatically call up the unit display for the group display you are viewing.	D3
Console 101232	Virtual controller problems. On the virtual controller, you cannot specify “none” to remove block links or no group.	D3
Console 101245	”Disk Folder Full” alarm does not indicate which folder is full. When a disk folder becomes full, the alarm generated does not indicate which file is full. Disk Folder Full - No Free Sectors You must manually search each folder to find one that is full.	D3

ID	Description	Rating
Console 101253	Console Configuration screen and the Report Configuration screen must specify the same print node. If you do not specify the same print node on the Console Configuration screen and the Report Configuration screen, you cannot print reports. This might be a problem for customers who want to use separate printers for reports and alarms.	D3
Console 101256	Hardware alarm list problem. When using the List object: If you specify the Hardware Alarm List, you may not get any entries.	D3
Console 101302	Unexpected results from enabling the “Op Chg” field on the Console Configuration Screen. When the “Op Chg” field is enabled, events logged in the Operator Change Log also appear in consoles that do not own the original node. If the operator changes his key, it gets logged on all consoles that have the “Op Chg” field enabled. If an operator puts an I/O block from ControlFile 1 into manual mode, all consoles that have the “Op Chg” field enabled and own node 1 will get this event logged.	D3
Console 101411	Trending may display incorrect data. When a time is entered in the “Time” field on a Trend Group display so that the display shows both current data and history data, the display may show incorrect data. WORKAROUND: To eliminate the incorrect data, enter the time value repeatedly until the error moves off the graph.	D3
Console 101437	Event might not include all of the block descriptor. If a block has a long descriptor assigned to it, an event for that block may not include all pertinent information.	D3
Console 101954	List object does not log alarms for continuous variables. If you specify a block range for a List object, alarms for continuous variables from a “Discrete” ControlBlock are not included in the alarm list. Discrete variables log correctly.	D3
Console 101965	BFACE Graphic object. Text on the BFACE objects may appear in the same color as the cursor.	D3
Console 102138	Time entry field on Trend Log is too small. The “Time” field on the Trend Log object is not large enough to allow all possible user entries. The field allows for entry of only up to 9 characters. If you want to configure a relative time that includes days, you must use single values for the hours, minutes, and seconds (for example, -15/4:5:5).	D3
Console 102200	Block References screen displays only one page per block. Only one page of references may be displayed for a block on the Block References screen, even if more references exist.	D3
Console 102240	LED for disk alarms on the operator keyboard does not light. When a disk alarm occurs, the LED on the operator keyboard for storage alarms does not animate, and the associated LED for active alarms also does not animate.	D3

ID	Description	Rating
Console 150571	Selecting several graphic objects can slow the screen refresh. In graphics generation mode, if you select several objects, the console display may not update for 2 or 3 seconds.	D3
Console 151031	Link rate at which value updates. If: The "Screen Refresh" rate is set faster than the "Field Refresh" rate, and on a graphic, you place the cursor on a link object, Then: the rate at which that link value updates is slower than the rate at which other links on the graphic update.	D3
Console 151163	Grouped graphic objects stagger when moved or copied. If two or more graphic objects, such as TAG, BFACE, BAINPUTW, BARCPW, and BLKDES, are grouped together and then moved or copied, their outlines stagger during the move. WORKAROUND: Line the objects up by the position of the upper left object. Once the new position is selected, the objects fall into their original alignment.	D3
Console 151184	Link Edit screen limitations. On the Link Edit screen, you cannot change the card cage and link address range of I/O blocks. For example, the following will not work: Change card range =31EA101, =31EA104 to range =31EB101, =31EB104 Change links range =31E101, =31EA104 to range =31EB201, =31EB204 The Link Editor screen is used to edit addresses for block links in process graphic files.	D3
Console 151520	BFACE graphic object might display confusing field values. On the BFACE graphic object, the following fields display "Overflow" as a value when no data is available: ID >FUNIT STAT/NORM STAT3	D3

ID	Description	Rating
Console 151595	<p>Alarm cleared time and acknowledged time do not toggle on the working recipe.</p> <p>On the Working Recipe screen, you cannot toggle an alarm message between the occur format and the current format using the [EXCHANGE] key. The [EXCHANGE] key correctly toggles alarm viewing modes on all other screens.</p> <p>NOTE: Because some alarm banners include more information than can be displayed on the screen at one time, Version 17 and above now include two alarm banner formats. The occur format is the default alarm format. The current format can display add.</p>	D3
Console 151602	<p>Event list does not show the OFF state of the CIB block.</p> <p>On an event list, an event triggered by the rising field state of a CIB block might not show the current value of the field state when you position the cursor on it. The event always shows the state as "ON", even when the state returns to "OFF".</p>	D3
Console 151623	<p>Descriptors are not cleared when you are paging trend groups.</p> <p>When you page through the Trend Group Configuration screens, the descriptors from the previous screen will remain in the "Descriptor" fields. The "Descriptor" fields on the current Trend Group Configuration screen should be blank, unless there is new descriptor data for that screen.</p>	D3
Console 151774	<p>Multitubes might load the default configuration on power up.</p> <p>Rarely, multitube consoles on power up might load the \$\$DEFAULT console configuration and indicate "ERROR" on the Disk Directory PeerWay screen.</p> <p>WORKAROUND: Reboot the multitube consoles.</p>	D3
Console 151809	<p>SRU downloading of trend group displays is slow.</p> <p>The SRU does not display the trend group display screen until all data values are collected. Delays of 3 minutes are possible.</p>	D3
Console 151831	<p>Line and page number counts for reports with alarm lists may be incorrect.</p> <p>If a report contains an alarm list object, the line length and number of pages for the report may be incorrect on the Report File Contents screen.</p>	D3
Console 151875	<p>Stations are not displayed on the Material History Display screen.</p> <p>The "Station" field on the Material History Display screen does not display stations that are configured on the Material History Configuration screen.</p>	D3
Console 151903	<p>Reports do not handle area alarm lists gracefully.</p> <p>If the number of lines specified in the "# lines" field is greater than the number of alarms in the area alarm list, the report will repeat the area alarm list until the number of lines specified is met.</p> <p>If the number of lines specified in the "# lines" field is 0, which is the default value, the report file will repeat the area alarm list until all available space in the folder is filled up.</p>	D3
Console 152032	<p>Backup of SRU trend and SQC data records the wrong time.</p> <p>The "Backup" operation records the wrong backup time of an SRU trend data file or an SQC Data folder. The end time instead of the start time for the trend or SQC data cycle is recorded as the backup time.</p>	D3

ID	Description	Rating
Console 152034	On the Tape Directory screen, the scroll field might not accept a file number. On the Tape Directory screen, the scroll field ("Start >") might not accept a number entered. A yellow banner message indicates that the file number is out of range, even when it is not. This problem happens infrequently. If you cannot enter a file number, use the trackball to scroll to the file.	D3
Console 152035	Backup of an active file aborts the "Backup" operation. A backup of an active file aborts the "Backup" operation, as indicated by the following messages on the disk event list: DX: file in use disk operation aborted Vol Name changed Nodexx Update DDP scrn NOTE: The message Vol Name changed Nodexx might appear even though the volume name has not been changed.	D3
Console 152046	"Disk Backup" operation aborts if the disk is full. The "Disk Backup" operation aborts for all folders, not just the folders that are full. The following messages are recorded in the disk event list: DX: disk folder full Disk filed copy aborted, 0 sectors Disk folder full-no free sectors WORKAROUND: Back up individually each folder that is full.	D3
Console 152069	Russian only: Menus alter Cyrillic keyboard mode. When the Menus are used, the keyboard data entry mode is forced to Cyrillic and is not restored. When you are using the English Tags option, you are forced to keep switching back to the English mode.	D3
Console 152369	The command used to back up files does not always work correctly. The backup command does not search for what was specified in the command. Instead of backing up only what you ask for, it backs up everything. Therefore, it can run out of space.	D3
Console 152378	The "Folder Clean" option does not work on the console program. The "Folder Clean" option does not work on the console program, and if you try to perform the operation you get the following error message: "DX: Calling Drive Bad".	D3
Console 152703	Normalized units (nl) is not indicated on the discrete block diagram. ControlBlock scaling can use either engineering units (eu) or normalized unit (nl). Links configured for engineering units are indicated by "eu" on the discrete block diagram. However, normalized units are not indicated by the "nl" designation.	D3
Console 152713	Data out of place on SRU Status Display screen. On the SRU Status Display screen, the "Trend Disk Stat" field and the column underneath it are out of place by one row. The "Cache Disable" field erroneously appears above the "SQC Control" field.	D3

ID	Description	Rating
Console 152777	A “BAD RANGE” message appears when backing up nodes less than 20. On the Disk Activity screen, the message “BAD RANGE” appears when you enter the “Disk Backup” operation for nodes with address numbers less than 20. You can ignore this message.	D3
Console 152782	Russian Only: Occasionally, random characters may appear on the command line.	D3
Console 152813	When performing a Disk Initialize operation on a floppy disk, bad default files, type ?255 are left in the Plant and Console configuration folders. Workaround: Delete type ?255 files and create new files.	D3
Console 152824	On the process graphic trend object, the cursor sometimes bounces out of the display box when you move the slide wire to the left side of the box.	D3
Console 160029	Page keys on the configuror keyboard might quit working. Infrequently, the [PAGE AHEAD] or [PAGE BACK] keys on the configuror keyboard might quit working. To recover, press [CTRL][ALT][DEL] all at the same time to reset the keyboard.	D3
Console 160041	If you save a single console configuration and then reload by specifying ALL, configurations that were not saved are loaded to defaults.	D3
Console 160074	The console will scan only the first 196 files in the report folder for scheduling report runs. Up to 1,000 report files can be in a folder.	D3
Console 160077	Multiple reports sharing alarms will not trigger if one is “inactive”. If multiple reports share an alarm from which they are to be generated, and one of the reports is changed to an “inactive” state, the other “active” reports will not be generated when the alarm becomes active.	D3
Console 800313	On power-up of a console that does not use password security, “searching all nodes” flashes and Disk Event List entry “Disk Name Not Found” is made.	D3
Console 800350	In the documentation, the alarm number 213 for DX: Cir Disk Bad is incorrect. The alarm number 213 should be for DX: Download in progress.	D3
Console 800605	Status bits for the MPAIO FIM Loop Power Module only occasionally update. The update frequency appears to be random.	D3
Console 800819	Russian console only: The small font is misaligned in the graphics alarm window.	D3
Console 800941	The tape directory does not display the tape descriptor. If you add a tape descriptor during the “Tape Initialize” operation, it is not displayed on the tape directory.	D3

ID	Description	Rating
Console 800990	Russian only: garbage characters appear in the batch input field. The input field is displayed on the Batch Input screen when a script executes an input instruction.	D3
Console 800992	Russian only: small font does not display properly on process graphics Batch Input Window (BAINPUTW object).	D3
Console 801108	The [EXCHANGE] key does not change the alarm mode when a batch recipe screen is displayed. On the control recipe and working recipe screens, pressing EXCHANGE while the cursor is on the alarm banner does not switch alarm modes as it should. On the master recipe screen, pressing EXCHANGE while the cursor is on the alarm banner causes the screen to change to the control recipe screen.	D3
Console 801118	When multiple reports are imbedded in another report (on the Report Generation screen), reports might not be displayed. The report information for the imbedded reports might appear identical or missing. However, when generated, the reports include the correct information, which you can view directly in the reports instead of in the imbedded reports.	D3
Console 801287	Reports do not correctly display discrete message pairs for DIB or CIB I/O blocks. Discrete "on" values are displayed as 100; discrete "off" values are displayed as 0.	D3
Console 801437	The Descriptor on a CB will allow you to enter more characters than are actually accepted.	D3
Console 801438	The Msg field of the Discrete Links page for a CB is out of order and This causes arrow keys to act unexpectedly.	D3
Console 801636	Cursor coordinates on report configuration screen are incorrect.	D3
Console 801724	On the Report Generation screen in the object window, the row and column values do not match the row and column values displayed in the upper left corner of the screen.	D3
Console 801768	Process alarms generated from a discrete I/O block do not show an Alarm Type field. Hardware alarms do show this information.	D3
Console 801770	The message pair field on the alternate bottom banner is an incorrect color for alarms generated by a discrete I/O block.	D3
Console 801774	The block state occur field of the Cleared Suppressed Alarms list (ASC) does not indicate a suppressed alarm with an (S) designation. Although the prefix (S) does not occur in the ASC list, the list by definition only contains suppressed alarms.	D3

ID	Description	Rating
Console 801869	On the Log Display Configuration screen, the configuration file # does not appear before the configuration file name.	D3
Console 801877	When no alarms are active, and the System, Hardware, or Process alarm button is pressed, the associated active alarm list is displayed. When there are no active alarms, and the alarm button is pressed, the user should be shown the cleared alarm list. Instead, a blank active alarm list appears.	D3
Console 802193	For the Performance series release of RS3, the MC, CC, and SRU options on the Plant Status screen should be handled similarly. The MiniConsole (MC), Command Console (CC), and System Resource Unit (SRU) are unsupported in the Performance release of RS3 (P1). The Plant Status screen precedes unsupported hardware with a (?). The SRU is indicated correctly, the MC and CC nodes have no ? designation.	D3
Console 802288	Reports allow for numerous SQC object types in the P1 Console.	D3
Console 101699	Batch monitor screen does not show the correct backup volume name. The Batch Monitor screen does not show the correct volume name for a backup volume. Use the primary volume to run batch tasks.	D4
Console 102266	Large batch report file causes a console crash. Batch files greater than one Megabyte can be created, but will crash the console when read. WORKAROUND: Create a new report for each cycle or number of cycles of your batch task to keep the reports to a reasonable length.	D4
Console 102934	Unowned plant unit, the console indicates that changes to the ControlBlock configuration have been made, but the ControlBlock has not been changed. If a change is made to any of the Periodic Reset fields of a Stack Totalizer and the console does not own the plant unit for that ControlBlock, the console generates the alarm that it does not own the plant unit. The console also displays the change. The console should not display the change. The block is not actually changed, but the console will display the change until a new screen is selected and the ControlBlock is called up again.	D4
Console 150165	Configuring trend points beyond the available trend space results in sporadic I/O alarms. If configuration of trending points from a controller causes the controller's "Avl Trnd Spc" to go to zero, sporadic alarms result indicating communication errors from SIB, AIB, AOB and CIB I/O points.	D4
Console 150398	Transmitter Maintenance Log lockup. If a Transmitter Maint Log has more than 14 entries and a value of less than 14 is entered in the 'Max entries' field, the console will lock up with a yellow banner on the first line of the Trans Maint Log screen. The console displays 'Reading Log from Disk'. You must reboot the console to recover.	D4

ID	Description	Rating
Console 150402	<p>The “Block out of range” alarm does not indicate which folder or file is the source of the alarm.</p> <p>The disk alarm “Block out of range” indicates that a folder or file is corrupted, but it does not indicate which one.</p> <p>WORKAROUND: Disable folders--Trending, Reports, Etc.--until you find problem folder.</p>	D4
Console 150871	<p>Generating a report from a node that does not exist in another report crashes the console.</p> <p>The generate object includes a report in another report. If the report you want to include in the generated report is specified on a node that does not exist, the console crashes when it attempts to generate the report.</p>	D4
Console 151765	<p>Block print on foreign language consoles hangs when it is interrupted and resumed.</p> <p>The block print on foreign consoles hangs when interrupted and resumed, English consoles may be interrupted and resumed with no problems. This requires the console to be rebooted.</p>	D4
Console 151805	<p>Turning on “MCC Alarm” that has been turned off does not clear user defined logic on motor ControlBlocks.</p> <p>On a DMC, DASMC, DDSMC, and DDDMC motor ControlBlocks, most of the logic steps are designated as a “Pre-defined function” and cannot be configured. However, if you change the “MCC Alarm” field from “Yes” to “No” on the discrete faceplate, you can configure your own logic in the logic steps c, i, and l.</p> <p>A problem can occur if you turn on an “MCC Alarm” field that has been turned off (from “No” to “Yes”) in order to reinstate predefined logic in place of logic you defined. The block does not clear the logic you defined in steps c, i, and l. When the block is run, the user defined logic will compete with the predefined logic.</p> <p>For example, if you enter H=H+.01 in step l and change “MCC Alarm” to “Yes”, logic step l will display the message “Predefined Logic” but execute H=H+.01.</p> <p>WORKAROUND: Clear all user defined logic from the logic step before turning the predefined logic back on with “MCC Alarm > Yes.”</p>	D4
Console 160019	<p>When the “PASS TIME” field on a HIA is “NO”, changing system time on PW 2 changes the time on PW 1 instead. The time on PW 2 is not changed.</p>	D4
Console 160022	<p>On the Dead Time block, the plot might peg at 100% for a few seconds in response to a Controller Switch.</p> <p>The 100% plot is a false reading. In tests, an SIB block was linked to input A of the Dead Time block.</p>	D4
Console 160090	<p>CP switch causes a six second data disruption on the Material History Display screen and data array file.</p>	D4

ID	Description	Rating
Console 800013	Multiple disk/tape operations can cause the loss of overlays. Multiple concurrent disk/tape operations (such as folder backup and file copy) on multitube consoles can cause an SCSI bus timeout that may result in the loss of overlays.	D4
Console 800067	The password file might lock up after 991 plant user and 849 user name detail screens have been entered.	D4
Console 800068	The alarm printer buffer can lock up if there is a negative count of active alarms. A site with two control rooms reported this problem. When one room receives only dedicated alarms, the unprinted alarm counter in the other room is reduced by increments of -1. When the second control room is closed and its alarm area is disabled, there is a burst of alarms printed out.	D4
Console 800182	Alarm Log Display screen crashes the console if 10-11 nodes are entered on the find, filter, and sort criteria areas.	D4
Console 800372	If a password console is power cycled, and the \$\$PASSWD file on the primary volume is not found, it reboots as a nonpassword console. This problem happens only on consoles with a standard KBI. If the \$PASSWD file is on the backup volume but not on the primary volume, the system will not find it.	D4
Console 800976	If a block descriptor uses all 24 characters, the BLKDES graphic object does not display the descriptor. If you limit the descriptor to 23 characters, the BLKDES graphic object displays the descriptor correctly.	D4
Console 800977	On a group display, you cannot enter a limit for a ratio bias block unless you configure the input register at the top of the continuous faceplate. If you have not entered the register at the top of the continuous faceplate, you can use the slew buttons to change the value on the continuous faceplate. You cannot enter the value in the directly in the field. WORKAROUND: On the continuous faceplate for the Ratio Bias block, enter the input register value for the link in an input field above the faceplate. You must do this first in order to enter values in the high limit field on the group display.	D4
Console 801086	Copying an icon with mixed parameter types might cause the loss of parameter data in the copy icon. This problem occurs only with icons that have mixed parameter types, for example any combination of Value, String\$, Time, or Boolean parameters in the same icon. Although this problem is infrequent, the loss of parameter data will corrupt the entire recipe. Therefore, for safety, do not copy icons with mixed parameter types. You can safely copy icons that have only one type of parameter.	D4
Console 801116	The console might crash when you change information in a report. This problem happens very infrequently.	D4
Console 801127	The block print utility can crash the console when the printer is offline. Also, if you attempt to print only block links, it prints an empty frame.	D4

ID	Description	Rating
Console 801187	<p>When the “Operator” is specified as the “Key Class for Reports” on the Console Configuration screen, the operator can delete batch scripts.</p> <p>The “Key Class for Reports” field is supposed to only allow operators to have read, write, and delete privileges for reports. It is not intended to allow these privileges for batch scripts.</p>	D4
Console 801219	<p>On the I/O block, you can change the device type even if your console does not own the plant unit for the I/O block.</p> <p>This problem does not apply to Comp blocks.</p>	D4
Console 801222	<p>An alarm might be displayed only on one console if two process graphics contain an identical group display.</p> <p>If:</p> <ul style="list-style-type: none"> - Two process graphics contain identical process graphics, and - The two process graphics are displayed simultaneously on two separate consoles, and. - the an alarm is generated for the group, and - a group value is changed on one of the consoles, <p>Then:</p> <ul style="list-style-type: none"> - The value displayed on the other console will not change correspondingly to match the console on which the value was changed. 	D4
Console 801259	<p>RBL elseif statements with comments might not parse when the script is upgraded from V15_R5 to V18R2.</p> <p>The elseif statement will not parse if it includes comments that are flush with the left margin or start in the same character column as the elseif statement. For example, the following comment will prevent the elseif from parsing:</p> <pre> if temp<78 instruction aaa elseif temp<100 “Midrange temperature” instruction bbb </pre> <p>In this case, sometimes the wrong line may appear backlit in red as the cause the parsing error.</p> <p>WORKAROUND: Indent the problem comment and parse the script again. For example:</p> <pre> if temp<78 instruction aaa elseif temp<100 “Midrange temperature” instruction bbb </pre>	D4
Console 801281	<p>On the report Read/Scan screen, entering a new file locks the console.</p> <p>If you display a report and attempt to call up another report by entering that report in the “Filename” field, the Read/Scan screen will not display the report. If you subsequently enter a number twice in the “Print Entry” field, the console locks up.</p>	D4

ID	Description	Rating
Console 801363	<p>The console might not reboot after a Batch Wipe Command (BAW) with an incorrect node number.</p> <p>The console reboots if the the cursor is placed on the alarm banner or alarm summary line before the Batch Wipe command completes.</p>	D4
Console 801385	<p>Consoles might reboot if a Controller Processor is disabled while while and FIC Detail screen is displayed on the console.</p> <p>The following can cause a console crash to occur when a multipoint analog I/O field interface module is connected to a controller and the FIC Detail screen is displayed:</p> <ol style="list-style-type: none"> 1. The console will always crash if the CP is disabled. 2. The console might crash if the nonvolatile memory is disabled and then the CP is disabled. 3. The console might crash if the CP is disabled and then the nonvolatile memory is disabled in quick succession. <p>The console will not crash if only the nonvolatile memory is disabled.</p>	D4
Console 802287	<p>When the ABC Data Folder is configured to certain sizes, the folder can not be restored from a tape.</p>	D4
Console 802622	<p>An operator can change the output option field on the hob block config screen. This should be limited to a configuror.</p>	D4
Console 802673	<p>040 console will not boot up with bad battery on printer board</p>	D4
Console 802976	<p>Console can be made to crash when using "Disk Virtual Controller"</p>	D4
Console 803091	<p>Console crashes when a large negative number is entered in the output of the SIB block.</p>	D4
Controller 100513	<p>RS3 can display PV Rate alarms that are less than the deadband setting.</p> <p>To avoid this problem, do not set a PV Rate alarm for a process variable a value that is less than the deadband. The only way for the rate alarm to go away is for the process variable to drop below the PV Rate alarm value minus the deadband. If the deadband is larger than the PV Rate alarm, this will might never happen.</p> <p>NOTE: The PV Rate alarm is based on units per second. The deadband is based on percent of scale. The following formula converts deadband to rate.</p> $\text{Rate} = \frac{\text{Deadband}}{100\%} (\text{High Lim} - \text{Low Lim}) + \text{Low Lim}$	D3

ID	Description	Rating
Controller 100921	Active RIOB that is reconfigured as TIB on \$\$MPCAT does not clear the internal controller switch. A Redundant I/O Block reconfigured as a Temperature Input Block on an \$\$MPCAT controller will not clear internal communication lines. WORKAROUND: Delete the block and re-enter it.	D3
Controller 101016	RBLC Monitor screen “go to line #” field does not work unless you scroll the screen first. On the RBLC Monitor screen, if you select “hold”, you must scroll the screen first before you can enter a line number requested by the “go to line #” field.	D3
Controller 101017	Execution problems from running a very large RBL Controller script In some very special cases, running a very large RBL Controller script (20K or larger) with a large number of variables can produce execution problems. The RBLC may not free up all of the nonvolatile memory that is set aside for the script so that the Controller runs out of nonvolatile memory.	D3
Controller 101209	Flexterm that is added to a running controller shows “NO DEVICE”; Block addresses with no I/O Blocks configured may show “NO DEVICE” for the block type and the FIC may not show up on the FIC Status Screen. WORKAROUND: Configure I/O Blocks for each FIC.	D3
Controller 101211	FIC download failure If you try to do a FIC download to Cage A and B and both A and B are driven from the same communication lines, the download fails for several of the cards. WORKAROUND: <ol style="list-style-type: none"> 1. If there are SIBs configured on the communications line and no transmitters are attached to the block, temporarily delete the SIB configurations, then retry the download. 2. It is better to download to only one cage at a time. 	D3
Controller 101217	Flexterm added to a running controller shows “NO DEVICE” Block addresses with no I/O Blocks configured may show “NO DEVICE” for the block type and the FIC may not show up on the FIC Status screen. WORKAROUND: Configure I/O Blocks for each FIC.	D3

ID	Description	Rating
Controller 101337	<p>”Invalid Link Input” alarm for PIOB does not clear</p> <p>When an analog output PIOB is configured as an analog “Output Type”, an Invalid Link Input system status alarm is generated. If you change the “Output Type” to a Supply “Output Type”, which does not require a source link, the alarm does not clear.</p> <p>To clear the alarm:</p> <ol style="list-style-type: none"> 1. Change the “Output Type” to Analog. 2. Configure the “Source Link” Field. 3. Change the “Output Type” to Supply. <p>or</p> <ol style="list-style-type: none"> 1. Save all of the blocks to disk using the Disk Configuration Copy operation. 2. Wipe the Bubble memory by using the command line WB. 	D3
Controller 101357	<p>TIB calibration alarm</p> <p>If you are calibrating a TIB in response to a calibration alarm, you may have to calibrate twice to remove the alarm.</p>	D3
Controller 101384	<p>An AOB screen with an invalid link does not display an alarm.</p> <p>The System Status Alarm List indicates an invalid link for the AOB, but the AOB screen gives no indication that there is a problem with the link.</p>	D3
Controller 101533	<p>Downloading a new FIC software revision might fail</p> <p>When updating the FIC software revision, download the new revision and then check the FIC Status screen to make sure that the download to all FICs was successful. Repeat the download to any FICs that were not updated.</p>	D3
Controller 101561	<p>TIB calibration alarm</p> <p>If the first time that you configure a TIB you use the default display scaling (as defined by the “Eng Zero” and “Eng Max” fields), then the block output is sent as an unscaled value. Unscaled values cannot be trended.</p> <p>However, if you configure the display scaling to any other value besides the default .00-1.0, the block output is sent as a scaled value from .00-1.0. You can then reconfigure the display scaling to the default scaling and the block output is sent as a scaled value from 00-1.</p>	D3

ID	Description	Rating
Controller 101948	<p>SIB FIC locks up when removed and replaced</p> <p>If:</p> <p>a redundant FIC is backing up to an SIB FIC that was removed, and the SIB FIC is replaced, and the redundant FIC is removed so that the original SIB FIC can take control,</p> <p>Then:</p> <p>the original SIB FIC may lock up, display a hardware alarm code of 19, and not communicate with the transmitter.</p> <p>The procedure listed above is not recommended. The recommended procedure is described below.</p> <ol style="list-style-type: none"> 1. Insert the redundant FIC again. 2. Call up the RIOB Configuration screen and force an FIC switch to get the original FIC to take control. 	D3
Controller 102023	<p>Controller Processor with 1/1 redundancy generates a misleading message</p> <p>On the ControlFile Status screen, if you manually switch control from the Controller Processors while using 1/1 redundancy, an "RIOB Hardware: Redun Jumper Conflict" alarm message may be generated. Ignore this message.</p>	D3
Controller 102437	<p>Starting an MPC2 might cause RIOB problems</p> <p>If:</p> <p>A ControlFile with CPIV and MPCII cards has a Controller Processor connected to Analog Card Cages addressed as B, C, and D, and at least one of the card cages has an Analog Output Card with a firmware version lower than 2.1 and software version lower than 3.7, and you have configured an RIOB on at least one Analog Output Card,</p> <p>Then:</p> <p>you reboot the Controller Processor and the FIC "Health" is displayed as Bad for good FICs, and sometimes the "Feedback Error" bit is set.</p> <p>WORKAROUND: To clear the situation, pull the FIC and reinsert it, or make sure that all of the FICs have the same software version within the same card cage.</p>	D3
Controller 150405	<p>Controller Processor switch causes a TIB spike.</p> <p>The first evaluation cycle after a Controller Processor switch, the CJC sensor TIB input might spike.</p>	D3
Controller 150437	<p>Using a Temperature Input FIC for redundancy</p> <p>A Temperature Input FIC can be used as a redundant FIC only for another Temperature Input FIC. The "Backup Status" field on an RIOB Block Configuration screen does not display ERR if a Temperature Input FIC is used as a redundant FIC for another type of FIC.</p>	D3

ID	Description	Rating
Controller 160061	Loading FIC images to an analog FIC with a Smart daughter board might not work. The first attempt to load an FIC program image to an analog FIC with a Smart daughter board might not succeed. WORKAROUND: Repeat the Disk Load Program or Script operation.	D3
Controller 800208	Analog output (Q) of the DCB block cannot be changed. Because the DCB is not used with analog output, this has no real effect.	D3
Controller 800555	HART Output Block does not log value changes in the Maintenance Log. The "Xmtr Config Change" bit is not set when a configuration change is sent to the transmitter. This bit controls logging.	D3
Controller 800792	The console display is not updated when an RNI PTI (Pass Through Interface) invokes a HART write command to an HOB When a PTI message containing a HART write command is sent to a valve for a configured HOB, the controller does not notify the console to update the Hart Output Device Status/Config screens	D3
Controller 801145	In MPC1 controllers, FIC redundancy does not work. In the RIOB screen, the backup status indicates "ERR". When "ERR" appears, you cannot configure the riob to backup the FIC.	D3
Controller 801408	In a ControlBlock Continuous Links screen, Engineering min and max fields can only display four significant digits. Engineering minimum and maximum values that are over four digits round decimal number to the fourth digits. For example, if you enter an Eng Max value of 15.0151, it is rounded to 15.020.	D3
Controller 101002	Batch alarms from a PLCB block appear in the PROCESS Alarm List instead of the BATCH Alarm List.	D4
Controller 101381	RIOB has incorrect hardware alarm code. If an active RIOB card is pulled, it may generate a false alarm code 9, which indicates incompatible hardware.	D4
Controller 101792	VIB does not hold a value when an FIC is pulled for an RIOB takeover. When an FIC fails, VIBs do not hold their value during an RIOB takeover. This is temporary, however; when the "Hold Forward" flag goes away, the VIB again reflects the SIB input.	D4

ID	Description	Rating
Controller 102936	<p>Reverse acting AOBs that are not in Auto Lock</p> <p>If:</p> <p>an AOB block is configured as reverse acting, and</p> <p>Auto Lock is off, and</p> <p>the block is either in AUTO or MANUAL mode, and</p> <p>a bypass module is installed,</p> <p>Then:</p> <p>when the bypass module is taken out of bypass mode the output will drop to 4 milliamps for 1 to 2.5 seconds. This only occurs at high (19 to 20) milliamp outputs.</p> <p>If Auto Lock is ON, the output will stay at the correct value when the switch from bypass to normal takes place. If the FIC card is jumpered for hold and communication is broken between the controller and the FIC, the output will again stay at the correct value when the switch from bypass to normal takes place.</p> <p>WORKAROUND: 01984-2480-0001 FIC and 01984-2518-000X FIC.</p>	D4
Controller 150858	<p>Incorrect values appear in reports for some block types.</p> <p>Some values are incorrect on block reports:</p> <p>Flag values (a-o) from a PLC block as appear in the report as OFF.</p> <p>BCD\$, BCD\$, S int, and U int values are multiplied by 100 in a report.</p>	D4
Controller 150863	<p>RBL Controller may run out of memory during chaining</p> <p>If the RBL Controller runs out of memory during chaining, it will stop and issue an "RPN BAD" message. Chaining is initiated with the RBL chain instruction.</p> <p>WORKAROUND: Execute a "cont" command on the RBL Monitor screen to continue execution.</p>	D4
Controller 151061	<p>Output Rate Limit Inhibit flag (Q.t.m) does not turn off.</p> <p>The Output Rate Limit Inhibit flag, which can be turned on by entering "norate" in the conditions portion of a logic step, cannot be turned off.</p>	D4
Controller 151100	<p>MIB Rate of Change alarms may be false.</p> <p>The Multiplexer Input Block (MIB) may give false alarm indications for the Rate of Change fields.</p> <p>When a value is entered into the Crit or Adv Rate-Chng field, the field changes color after a few seconds. This indicates the presence of an alarm when none is really present.</p> <p>If the Input Scale and Eng Units fields have values other than 0, the value entered for Rate of Change alarms will be the absolute value of the lower bound of the sum of the scale and the Rate-Chng value.</p>	D4
Controller 151437	<p>Resetting an RBL Controller during script chaining causes a "BAD RPN" error</p> <p>If an RBL Controller is reset or disabled during script chaining, the script may be corrupted.</p>	D4

ID	Description	Rating
Controller 151504	Hold Forward may stay on after an FIC failure and RIOB takeover. WORKAROUND: Reset the RIOB or cause a controller switch to release the hold.	D4
Controller 151570	DDSMCs and motor controllers with the MCC option are showing failed when they should not. Dual speed motor controllers (DDSMC) and motor controllers with the MCC option are incorrectly showing failed. The MCC alarm flag is taken literally as 11 (instead of bit 11), and alarms if a or b are on. Similarly, a speed 2 trip flag is taken literally as 8 (instead of bit 8), and alarms if d (Ignore) comes on.	D4
Controller 151571	Flag 2 (invalid input alarm) stays set when Point 2 of a PIOB is configured as a "Loader." When you configure Point 2 of a PIOB as a "Loader" without first entering a source value link, Flag 1 (invalid input alarm) is set and does not clear. WORKAROUND: Enter a source value before you select the "Loader" function for the point.	D4
Controller 151585	Step 1 and general failure flag remain on in a DMC when MCC Alarm option is selected and then later unselected. If you select the "MCC Alarm" option on a DMC, step 1 becomes the MCC alarm output. If step 1 is on, this sets the general failure flag. Now, if you unselect the "MCC Alarm" option, step 1 and the general failure flag both remain on, and they can only be cleared by reconfiguration. Another related imperfection in the mechanism retains user logic entered in step 1 even when step 1 is taken over by the "MCC Alarm" option.	D4
Controller 151611	You cannot kill an RBL Controller if you start it without assigning it a script name. The only way to stop the RBL Controller is to kill the entire controller processor (using KC Controller Processor).	D4
Controller 151911	RTD/TC single point calibration offset value is not saved properly. A kill controller or wipe bubble and a reload from disk operation causes the loss of the value.	D4
Controller 152696	On the Edit Link screen, tracking is allowed on links with eu, and nl conversion. Tracking is not performed on links which have eu or nl conversion specified, but no warning is given when tracking is specified for a link with one of these options specified or when a link which has tracking is given the eu or nl conversion.	D4
Controller 152728	The RBL Controller parses but cannot execute dot operators. Dot operators allow aliases to access different ControlBlock registers.	D4

ID	Description	Rating
Controller 160057	Calibrating an AOB with an open loop causes controller alarms or a possible controller crash. If you attempt to calibrate with an open loop, the system generates alarms. The alarms are AIB Hardware Comm Neg Acknowledge and REDUN Hardware Comm Neg acknowledge. A controller crash is also possible. WORKAROUND: Be certain that AOB is not calibrated with an open loop.	D4
Controller 160059	Active 7/1 RIOB loses communication on controller switch. An active 7/1 RIOB loses communication when the controller is switched on the Control File Status screen. 3/1 and 1/1 RIOB maintain control through controller switches.	D4
Controller 800132	Calculated PV values that are very near to zero may cause problems. A floating point underflow can cause the value to become very large. A calculated value that is near to zero (very small) can change to a large value if a floating-point "underflow" occurs. When the value gets very small, with an exponent of about -120, the exponent value can "underflow" and appear as a very large positive number. WORKAROUND: Clamp small values to zero by the use of logic such as: $A = (A < 2^{-100}) ? 0 : A$	D4
Controller 800642	MAIO and AOB "Fail Safe" mode does not always work correctly when a communication line to the controller is open. The problem occurs when the communication line is connected to the RIOB, the AOB is connected to the AIB, and the AIB link is to a dead time channel.	D4
Controller 800736	The MPAIO Cold Spare mode for AIB or AOB FIMs does not work after an RIOB is deconfigured and removed. WORKAROUND: If redundant controllers are used, remove the old RIOB from the Field I/O Status screen by switching controllers. If you do not use redundant controllers, kill the controller and then reload the configuration.	D4
Controller 800762	For a PLC+ on an MPC II with two ports configured, ModBus protocol, and RTU format, update time might slow significantly if one PLC is shut off. The input update time might drop as slow as once every 13 seconds, even when idle time is as high as 50%.	D4
Controller 801247	A deviation alarm animates the setpoint (SP), not the process variable (PV).	D4
Controller 801393	Using two sets of redundant controllers, crashing the primary will result in loss of plant configuration once in every several hundred crashes.	D4
Controller 801761	If there is a logic configuration error in a discrete diagram, your discrete outputs may be frozen. By unconfiguring a continuous register (set to none) which is used in a logic step may cause the loss of discrete output control for that block.	D4

ID	Description	Rating
Controller 802468	In RS3 Operator Stations using Version 18 Controllers, some registers retain their value and units after being deleted.	D4
Controller 802874	Function time(6) 4-digit display of YEAR shows 1900 instead of 2000 in block_step_logic or Batch. (& probably in other 4-digit functions)	D4
Documen- tation 800442	Trend file 0 is not adequately described in the user manuals. Trend File 0 is a trend file in RAM only. It is not saved on disk. With Trend File 0, you have no control over time duration. Frequency (60 data bits) controls duration. For example, if the frequency is every minute, the duration is one hour. Your sample rate is 60. Trending allows 200 disk points per disk. The data points used by Trend File 0 are subtracted from this 200.	D3
Documen- tation 801765	The Associated_Text_40 fields on the bottom banner line and the list banner get clipped at 21 characters on batch and RBL generated alarms & events.	D3
Documen- tation 803204	ControlBlock types P, I, PD, PID, TOT, TOTSP, ATPID, and LL name the wrong limits on propband, derivtm, and drvfltm parameters.	D3
Documen- tation 101190	A missing Transfer card is not shown on the RIOB screen. RIOB 3/1 and 7/1 in various slots give invalid configurations.	D4
Documen- tation 101263	RIOB takeover generates a "VIB HARDWARE" alarm. When the RIOB takes over, all of the VIBs generate a "VIB HARDWARE: OUTSIDE BLOCK RANGE" alarm. This alarm can also be active until you configure a source (SIB) for the VIB.	D4
Documen- tation 101365	RIOB transfer health does not agree with the hardware alarm. The active hardware alarm list of an RIOB contained a false alarm 120, which indicates a transfer card failure. When RIOB is selected, both transfer cards indicate normal health. The alarm and transfer health fields should agree.	D4
Documen- tation 102115	Too many hard coded block links can confuse a batch task If a batch task tries to access a hard coded block link value through 10 blocks (the maximum limit for passing links), the alias reading the value may not receive the correct value.	D4
Documen- tation 102271	If the CP switch is turned OFF and the ON quickly, the CP may refuse to boot up. Wait for the red LED to come ON before throwing the switch again.	D4
Documen- tation 150507	Acquire queue is not cleared when task is KILLED and RESTARTed. The Acquire Queues screen shows the task as a slave or master after it is killed.	D4

ID	Description	Rating
Documentation 150515	PIOB with a duration function displays the wrong time when a high cutoff is active. If the high cutoff value is reached on a PIOB with a duration function type, the block output displays the fall-to-rise time instead of the rise-to-fall time. For the duration function type, the cutoff should be set at or above the frame duration. The cutoff is basically not useful for duration.	D4
Documentation 152187	A recipe may be lost if it is loaded to a task that is in use. Make sure the task status is "Finished" before loading a recipe to it, or do not use the same task for more than one recipe.	D4
Documentation 800690	The backup instruction does not work in the RBL Controller. The backup never finishes and consequently RBL execution hangs on the backup instruction.	D4
Documentation 800742	If an RIOB goes bad before the primary MPAIO FIM recovers, the primary FIM does not automatically regain control. After 5 to 30 seconds, the controller will sense the problem and switch. The switch resets the primary so that it can take control. There must be redundant controllers in order for a controller switch to occur.	D4
Documentation 801155	Documentation for the SCI field code 200 is incorrect in The PeerWay Manual, Chapter 1 SCI, Section 4 Field Codes. The documentation says that field code 200 is the "Output State value" for a CIB block. It should say that field code 200 is the "Filtered State value" for a CIB ControlBlock.	D4
Documentation 801237	RBL Manual does not adequately explain how to assign a character string value to a vstringdim array. The vstringdim Array example on page RB: 1-3-19 shows a print\$ instruction used to assign a string value to the vstringdim array. This is only one method of assignment. You can also assign a string value directly to the vstringdim array.	D4
Documentation 801248	When scaling is changed in an AIB, graphic objects that display scaling will not update the change in scaling. Scaling changes to the I/O block are not routinely updated during a graphic refresh. Consequently, the graphic object will display incorrect data, and can potentially confuse operators. Graphics that display scaling information include the trending object and faceplate object. WORKAROUND: Exit from the process graphic screen and then recall the screen. Exiting and recalling the screen forces an update of the graphic object for the new scaling parameters.	D4
Documentation 801848	If a block is unconfigured in RS3, RS3ops does not check for notification of the unconfigure and this case is not handled.	D4
Documentation 801909	Batch Plant Unit Disown procedure not correct in manual	D4
Documentation 802046	When doing a disk load transfer, the transferred configuration links between the ControlBlock and I/O blocks do not update consistently.	D4

ID	Description	Rating
Documentation 802262	If you use more than 30 comm-op icons, the CP memory may be corrupted.	D4
Documentation 802478	Manual does not clearly indicate that the Batch Config screen “Recipe Support Data” disk entry controls the VDIMS, tables and scripts (confusing)	D4
Documentation 802819	Need to point out “DISK SHUT DOWN:” command in documentation.	D4
I/O 101273	<p>Smart transmitter discontinues a fixed current mode</p> <p>During communication between the Rosemount System 3 and an FIC:</p> <p>If:</p> <p>The smart transmitter has been placed in “fixed current mode”, and the FIC fails to initiate a control switch to an RIOB,</p> <p>Then:</p> <p>the smart transmitter will discontinue the “fixed current mode”, and the smart transmitter output will respond to the process.</p> <p>WORKAROUND: Do this only if the fixed or parked value is 4.0 mA: Give the transmitter a multidrop address (“Set Xmtr Address” command to transmitter) greater than 0, and then the parked value on an RIOB switchover is not lost.</p>	D3
I/O 101402	<p>VIB block “Eng Min” and “Eng Max” do not change output</p> <p>On the VIB block, field values are being incorrectly scaled and then unscaled, leading to an apparent “no change” in a VIB block output. Manually copy the scaling of the transmitter (displayed on the VIB) to the Eng Min and Eng Max fields on the ControlBlock Links screen.</p>	D3
I/O 101470	<p>Filter time on the SMART does not work</p> <p>On the SIB I/O Block Configuration screen:</p> <p>If:</p> <p>you are using a \$\$SMART image, and</p> <p>you configure a filter time in the “Filt Time” field,</p> <p>Then:</p> <p>the configured filter time is not applied to the SIB output.</p>	D3
I/O 101466	<p>RIOB block redundancy failure</p> <p>I/O redundancy for RIOB blocks fails if more than one FIC card fails.</p>	D4

ID	Description	Rating
I/O 151701	<p>Last I/O block of the DIO controller may cause problems.</p> <p>There are several problems (block save, block access) with the last I/O block address of the DIO controller. Do not use the address =Xxx832 block.</p> <p>WORKAROUND: Do not use the last block.</p>	D4
I/O 151910	<p>Negative controller idle time when all SIB fields are changed and transmitted.</p> <p>When the SIB date, tag, desc, message, units, damping, and output fields data is changed and sent to the transmitter, controller idle time is negative.</p>	D4
I/O 151913	<p>Transmitter Maintenance Log screen displays limited range values.</p> <p>The transmitter Maintenance Log displays values in the range -9999 to 99999. Values outside that range do not display.</p>	D4
I/O 152182	<p>If a FIC with a Rev 5 transmitter receives a Rev 4 response, no error is displayed on the Transmitter Status screen.</p>	D4
I/O 800558	<p>VIB block displays HOB Xmtr Units as ???.</p> <p>This problem happens when the VIB block reads the temperature variable from the HOB block. Xmtr Units should display temperature units.</p>	D4
I/O 801111	<p>If the "Output Option" setting for an HOB block is digital, the value sent to the valve is too small by a factor of 100.</p> <p>The FIM converts the 4 to 20 milliamp current value to a 0 to 1 range instead of a 0 to 100 range.</p>	D4

