Technical Description

AC460 - Redundancy Control Unit Halt Error 43 Recovery Procedure

Products Concerned

AC460 Controllers

Description

In a redundant controller installation, the backup/standby controller is continuously updated by the primary controller so that it is ready to take over from the primary in the event of a primary controller hardware failure. The Redundancy Control Unit (RCU) is responsible for ensuring that the backup controller is able to take over control in the event of a primary controller failure. Should an RCU failure occur on either the primary or backup controller, an error 43 will be displayed on the ***backup*** controller. If this occurs, note the following information and procedure below:

- The primary controller will continue to control but will ***not be redundant***.
- It is not possible to fail over to the backup controller.

The error 43 does not identify which controller has failed, only that redundancy is no longer functional. The procedure in the event of an error 43 is to:

Allow the primary controller to remain in control and replace the backup controller. After replacing the backup controller, monitor the controller and check to see if error 43 reappears. If no error is seen, the RCU failure was on the backup controller and the replacement of the backup controller has corrected the problem.

If the error 43 reappears after the replacement of the backup controller, this means that the RCU failure is on the primary controller.

If this situation occurs:

- The primary controller will continue to control, but it will be non-redundant.
- It is *not possible* to fail over to the backup controller.
- The primary controller can be replaced when there is an opportunity to shut down, or manually control the affected part of the process and install a new controller module.

REVISION

Rev. ind.:	Page (P) Chapt. (C)	Description	Date Dept.
A		Initial Release	20 Jul 2010