



Page 1 of 1

March 11, 2013

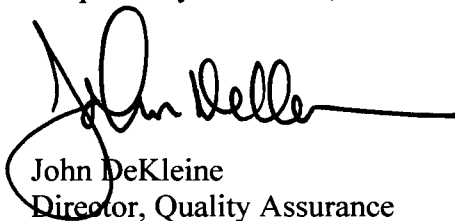
U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555-0001

SUBJECT: Reply to Notice of Nonconformance(s); Docket Number 999013777; Report number 2012-201.

The purpose of this document is in response to NRC Letter dated December 20, 2012 where the letter included a request for information (RFI) related to NON 99901377/2012-201-05. Attached is the information you requested.

If you have any questions regarding this issue, please contact me at your convenience.

Respectfully submitted,



John DeKleine
Director, Quality Assurance

Cc: Stanley Miller, Enertech General Manager

Attachment: Enertech letters distributed to our affected customers (13 letters)

IE69
NRO



November 14, 2012

**Exelon Generation Co, LLC
Clinton Nuclear Generating Station**

ATTN: Mr. Harry Wheeler, Chris Slavens, and Duane Hupp


Subject: Equipment Alert, Enertech modulating Electro-Hydraulic Operator (EHO), 2nd Generation design Servo Board, improper Installation concern. Enertech Inventory Servoboard numbers: D6371S, D5105S, C6395S, C6396S, A4074S, or A3747S.

As a precaution to the EHO users, Enertech has determined that customers owning the above subject equipment may introduce an assembly defect by incorrectly re-assembling the EHO Servo board. There are no concerns with equipment that has been factory installed. The content of this letter will describe the reason for our concern and provides a solution to eliminate any potential failures due to improper field installation. You are receiving this notification because you have been provided one or more of the Enertech inventory numbers stated above, and that there is a potential of electrical shorting in the EHO Servo Board if improperly re-installed.

Enertech manufactured three (3) generations of Servo Boards since the product was introduced (Generation 1 – introduction up to 1995, Generation 2 – 1995 to 2009, & Generation 3 – 2010 to present). This issue is specific to the Generation 2 (second generation) Servo Board. The second generation Servo Board included a 110 VAC trace placed near to the lower left mounting hole. The washer used for securing the Servo Board in place, lands on top of the trace. The Servo Boards are protective coated, providing adequate insulation for the trace. However washer rotation, excessive installation torque and poor alignment of the hardware can potentially scratch the protective coating resulting in a short circuit. The short circuit would prevent the EHO from its ability to continue to modulate, it would either fail open or closed based on the equipment application specification. To date (2) two field issues have been identified where improper field installation damaged the protective coating. Our investigation has resulted in the issuance of this letter expressing concern and proposed remedy.

In order to eliminate potential servo board failures due to improper field installation, Enertech has prepared a retrofit Servo Board Mounting Kit (P/N: MB24022) which we would like to provide to you at no cost if you so desire. The kit comes with a set of hardware and instructions on how to properly field install our Generation 2 Servo Board. If you desire the kit, please contact Enertech Contract Manager, Mr. Edward Buzby. He may be reached (714) 528-2301 extension 369, or by email: edb@curtisswright.com.

Regards,



John "Rusty" DeKleine
Director Quality Assurance
Enertech, a Business Unit of Curtiss-Wright Flow Control Company



November 14, 2012

**Jointly owned by electricity groups Endesa and Iberdrola
Vandellos Nuclear Generating Station**

ATTN: Mr. Sr. Mariano Masot Vilardell

Subject: Equipment Alert, Enertech modulating Electro-Hydraulic Operator (EHO), 2nd Generation design Servo Board, improper Installation concern. Enertech Inventory Servoboard numbers: D6371S, D5105S, C6395S, C6396S, A4074S, or A3747S.

As a precaution to the EHO users, Enertech has determined that customers owning the above subject equipment may introduce an assembly defect by incorrectly re-assembling the EHO Servo board. There are no concerns with equipment that has been factory installed. The content of this letter will describe the reason for our concern and provides a solution to eliminate any potential failures due to improper field installation. You are receiving this notification because you have been provided one or more of the Enertech inventory numbers stated above, and that there is a potential of electrical shorting in the EHO Servo Board if improperly re-installed.

Enertech manufactured three (3) generations of Servo Boards since the product was introduced (Generation 1 – introduction up to 1995, Generation 2 – 1995 to 2009, & Generation 3 – 2010 to present). This issue is specific to the Generation 2 (second generation) Servo Board. The second generation Servo Board included a 110 VAC trace placed near to the lower left mounting hole. The washer used for securing the Servo Board in place, lands on top of the trace. The Servo Boards are protective coated, providing adequate insulation for the trace. However washer rotation, excessive installation torque and poor alignment of the hardware can potentially scratch the protective coating resulting in a short circuit. The short circuit would prevent the EHO from its ability to continue to modulate, it would either fail open or closed based on the equipment application specification. To date (2) two field issues have been identified where improper field installation damaged the protective coating. Our investigation has resulted in the issuance of this letter expressing concern and proposed remedy.

In order to eliminate potential servo board failures due to improper field installation, Enertech has prepared a retrofit Servo Board Mounting Kit (P/N: MB24022) which we would like to provide to you at no cost if you so desire. The kit comes with a set of hardware and instructions on how to properly field install our Generation 2 Servo Board. If you desire the kit, please contact Enertech Contract Manager, Mr. Edward Buzby. He may be reached (714) 528-2301 extension 369, or by email: edb@curtisswright.com.

Regards



John "Rusty" DeKleine
Director Quality Assurance
Enertech, a Business Unit of Curtiss-Wright Flow Control Company



November 14, 2012

**Southern Nuclear Operating Company
Vogtle Nuclear Generating Station**

ATTN: Mr. Gary Mingo

Subject: Equipment Alert, Enertech modulating Electro-Hydraulic Operator (EHO), 2nd Generation design Servo Board, improper Installation concern. Enertech Inventory Servo board numbers: D6371S, D5105S, C6395S, C6396S, A4074S, or A3747S.

As a precaution to the EHO users, Enertech has determined that customers owning the above subject equipment may introduce an assembly defect by incorrectly re-assembling the EHO Servo board. There are no concerns with equipment that has been factory installed. The content of this letter will describe the reason for our concern and provides a solution to eliminate any potential failures due to improper field installation. You are receiving this notification because you have been provided one or more of the Enertech inventory numbers stated above, and that there is a potential of electrical shorting in the EHO Servo Board if improperly re-installed.

Enertech manufactured three (3) generations of Servo Boards since the product was introduced (Generation 1 – introduction up to 1995, Generation 2 – 1995 to 2009, & Generation 3 – 2010 to present). This issue is specific to the Generation 2 (second generation) Servo Board. The second generation Servo Board included a 110 VAC trace placed near to the lower left mounting hole. The washer used for securing the Servo Board in place, lands on top of the trace. The Servo Boards are protective coated, providing adequate insulation for the trace. However washer rotation, excessive installation torque and poor alignment of the hardware can potentially scratch the protective coating resulting in a short circuit. The short circuit would prevent the EHO from its ability to continue to modulate, it would either fail open or closed based on the equipment application specification. To date (2) two field issues have been identified where improper field installation damaged the protective coating. Our investigation has resulted in the issuance of this letter expressing concern and proposed remedy.

In order to eliminate potential servo board failures due to improper field installation, Enertech has prepared a retrofit Servo Board Mounting Kit (P/N: MB24022) which we would like to provide to you at no cost if you so desire. The kit comes with a set of hardware and instructions on how to properly field install our Generation 2 Servo Board. If you desire the kit, please contact Enertech Contract Manager, Mr. Edward Buzby. He may be reached (714) 528-2301 extension 369, or by email: edb@curtisswright.com.

Regards,

A handwritten signature in black ink, appearing to read "John DeKleine", with a long horizontal flourish extending to the right.

John "Rusty" DeKleine
Director Quality Assurance

Enertech, a Business Unit of Curtiss-Wright Flow Control Company



November 14, 2012

**STP Nuclear Operating Company
South Texas Nuclear Generating Station**

ATTN: Mr. David Kacko

Subject: Equipment Alert, Enertech modulating Electro-Hydraulic Operator (EHO), 2nd Generation design Servo Board, improper Installation concern. Enertech Inventory Servo board numbers: D6371S, D5105S, C6395S, C6396S, A4074S, or A3747S.

As a precaution to the EHO users, Enertech has determined that customers owning the above subject equipment may introduce an assembly defect by incorrectly re-assembling the EHO Servo board. There are no concerns with equipment that has been factory installed. The content of this letter will describe the reason for our concern and provides a solution to eliminate any potential failures due to improper field installation. You are receiving this notification because you have been provided one or more of the Enertech inventory numbers stated above, and that there is a potential of electrical shorting in the EHO Servo Board if improperly re-installed.

Enertech manufactured three (3) generations of Servo Boards since the product was introduced (Generation 1 – introduction up to 1995, Generation 2 – 1995 to 2009, & Generation 3 – 2010 to present). This issue is specific to the Generation 2 (second generation) Servo Board. The second generation Servo Board included a 110 VAC trace placed near to the lower left mounting hole. The washer used for securing the Servo Board in place, lands on top of the trace. The Servo Boards are protective coated, providing adequate insulation for the trace. However washer rotation, excessive installation torque and poor alignment of the hardware can potentially scratch the protective coating resulting in a short circuit. The short circuit would prevent the EHO from its ability to continue to modulate, it would either fail open or closed based on the equipment application specification. To date (2) two field issues have been identified where improper field installation damaged the protective coating. Our investigation has resulted in the issuance of this letter expressing concern and proposed remedy.

In order to eliminate potential servo board failures due to improper field installation, Enertech has prepared a retrofit Servo Board Mounting Kit (P/N: MB24022) which we would like to provide to you at no cost if you so desire. The kit comes with a set of hardware and instructions on how to properly field install our Generation 2 Servo Board. If you desire the kit, please contact Enertech Contract Manager, Mr. Edward Buzby. He may be reached (714) 528-2301 extension 369, or by email: edb@curtisswright.com.

Regards,



John "Rusty" DeKleine
Director Quality Assurance

Enertech, a Business Unit of Curtiss-Wright Flow Control Company



November 14, 2012

**Dominion Generating Company
Kewaunee Nuclear Generating Station**

ATTN: Mr. Joel Dill and Mr. Patrick Ehlen

Subject: Equipment Alert, Enertech modulating Electro-Hydraulic Operator (EHO), 2nd Generation design Servo Board, improper Installation concern. Enertech Inventory Servo board numbers: D6371S, D5105S, C6395S, C6396S, A4074S, or A3747S.

As a precaution to the EHO users, Enertech has determined that customers owning the above subject equipment may introduce an assembly defect by incorrectly re-assembling the EHO Servo board. There are no concerns with equipment that has been factory installed. The content of this letter will describe the reason for our concern and provides a solution to eliminate any potential failures due to improper field installation. You are receiving this notification because you have been provided one or more of the Enertech inventory numbers stated above, and that there is a potential of electrical shorting in the EHO Servo Board if improperly re-installed.

Enertech manufactured three (3) generations of Servo Boards since the product was introduced (Generation 1 – introduction up to 1995, Generation 2 – 1995 to 2009, & Generation 3 – 2010 to present). This issue is specific to the Generation 2 (second generation) Servo Board. The second generation Servo Board included a 110 VAC trace placed near to the lower left mounting hole. The washer used for securing the Servo Board in place, lands on top of the trace. The Servo Boards are protective coated, providing adequate insulation for the trace. However washer rotation, excessive installation torque and poor alignment of the hardware can potentially scratch the protective coating resulting in a short circuit. The short circuit would prevent the EHO from its ability to continue to modulate, it would either fail open or closed based on the equipment application specification. To date (2) two field issues have been identified where improper field installation damaged the protective coating. Our investigation has resulted in the issuance of this letter expressing concern and proposed remedy.

In order to eliminate potential servo board failures due to improper field installation, Enertech has prepared a retrofit Servo Board Mounting Kit (P/N: MB24022) which we would like to provide to you at no cost if you so desire. The kit comes with a set of hardware and instructions on how to properly field install our Generation 2 Servo Board. If you desire the kit, please contact Enertech Contract Manager, Mr. Edward Buzby. He may be reached (714) 528-2301 extension 369, or by email: edb@curtisswright.com.

Regards,



John "Rusty" DeKleine
Director Quality Assurance

Enertech, a Business Unit of Curtiss-Wright Flow Control Company



November 14, 2012

**Progress Energy Company
Shearon Harris Nuclear Generating Station**

ATTN: Mr. Dan Maley and Ben Scharff

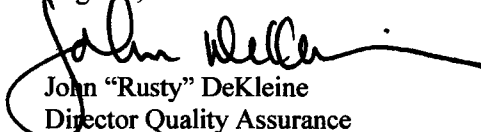
Subject: Equipment Alert, Enertech modulating Electro-Hydraulic Operator (EHO), 2nd Generation design Servo Board, improper Installation concern. Enertech Inventory Servoboard numbers: D6371S, D5105S, C6395S, C6396S, A4074S, or A3747S.

As a precaution to the EHO users, Enertech has determined that customers owning the above subject equipment may introduce an assembly defect by incorrectly re-assembling the EHO Servo board. There are no concerns with equipment that has been factory installed. The content of this letter will describe the reason for our concern and provides a solution to eliminate any potential failures due to improper field installation. You are receiving this notification because you have been provided one or more of the Enertech inventory numbers stated above, and that there is a potential of electrical shorting in the EHO Servo Board if improperly re-installed.

Enertech manufactured three (3) generations of Servo Boards since the product was introduced (Generation 1 – introduction up to 1995, Generation 2 – 1995 to 2009, & Generation 3 – 2010 to present). This issue is specific to the Generation 2 (second generation) Servo Board. The second generation Servo Board included a 110 VAC trace placed near to the lower left mounting hole. The washer used for securing the Servo Board in place, lands on top of the trace. The Servo Boards are protective coated, providing adequate insulation for the trace. However washer rotation, excessive installation torque and poor alignment of the hardware can potentially scratch the protective coating resulting in a short circuit. The short circuit would prevent the EHO from its ability to continue to modulate, it would either fail open or closed based on the equipment application specification. To date (2) two field issues have been identified where improper field installation damaged the protective coating. Our investigation has resulted in the issuance of this letter expressing concern and proposed remedy.

In order to eliminate potential servo board failures due to improper field installation, Enertech has prepared a retrofit Servo Board Mounting Kit (P/N: MB24022) which we would like to provide to you at no cost if you so desire. The kit comes with a set of hardware and instructions on how to properly field install our Generation 2 Servo Board. If you desire the kit, please contact Enertech Contract Manager, Mr. Edward Buzby. He may be reached (714) 528-2301 extension 369, or by email: edb@curtisswright.com.

Regards,



John "Rusty" DeKleine
Director Quality Assurance

Enertech, a Business Unit of Curtiss-Wright Flow Control Company



November 14, 2012

**Southern California Edison
San Onofre Nuclear Generating Station**

ATTN: Mr. Larry Kostrzewa

Subject: Equipment Alert, Enertech modulating Electro-Hydraulic Operator (EHO), 2nd Generation design Servo Board, improper Installation concern. Enertech Inventory Servo board numbers: D6371S, D5105S, C6395S, C6396S, A4074S, or A3747S.

As a precaution to the EHO users, Enertech has determined that customers owning the above subject equipment may introduce an assembly defect by incorrectly re-assembling the EHO Servo board. There are no concerns with equipment that has been factory installed. The content of this letter will describe the reason for our concern and provides a solution to eliminate any potential failures due to improper field installation. You are receiving this notification because you have been provided one or more of the Enertech inventory numbers stated above, and that there is a potential of electrical shorting in the EHO Servo Board if improperly re-installed.

Enertech manufactured three (3) generations of Servo Boards since the product was introduced (Generation 1 – introduction up to 1995, Generation 2 – 1995 to 2009, & Generation 3 – 2010 to present). This issue is specific to the Generation 2 (second generation) Servo Board. The second generation Servo Board included a 110 VAC trace placed near to the lower left mounting hole. The washer used for securing the Servo Board in place, lands on top of the trace. The Servo Boards are protective coated, providing adequate insulation for the trace. However washer rotation, excessive installation torque and poor alignment of the hardware can potentially scratch the protective coating resulting in a short circuit. The short circuit would prevent the EHO from its ability to continue to modulate, it would either fail open or closed based on the equipment application specification. To date (2) two field issues have been identified where improper field installation damaged the protective coating. Our investigation has resulted in the issuance of this letter expressing concern and proposed remedy.

In order to eliminate potential servo board failures due to improper field installation, Enertech has prepared a retrofit Servo Board Mounting Kit (P/N: MB24022) which we would like to provide to you at no cost if you so desire. The kit comes with a set of hardware and instructions on how to properly field install our Generation 2 Servo Board. If you desire the kit, please contact Enertech Contract Manager, Mr. Edward Buzby. He may be reached (714) 528-2301 extension 369, or by email: edb@curtisswright.com.

Regards,

A handwritten signature in black ink, appearing to read "John DeKleine".

John "Rusty" DeKleine
Director Quality Assurance

Enertech, a Business Unit of Curtiss-Wright Flow Control Company



November 14, 2012

**Korea Hydro & Nuclear Power
Yeonggwang 3 & 4 Nuclear Generating Station**

ATTN: Mr. Hyunguk Shin and Jungwon Lee

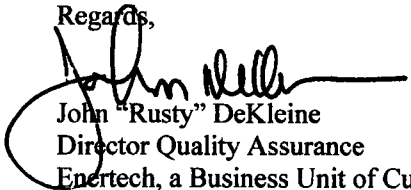
Subject: Equipment Alert, Enertech modulating Electro-Hydraulic Operator (EHO), 2nd Generation design Servo Board, improper Installation concern. Enertech Inventory Servo board numbers: D6371S, D5105S, C6395S, C6396S, A4074S, or A3747S.

As a precaution to the EHO users, Enertech has determined that customers owning the above subject equipment may introduce an assembly defect by incorrectly re-assembling the EHO Servo board. There are no concerns with equipment that has been factory installed. The content of this letter will describe the reason for our concern and provides a solution to eliminate any potential failures due to improper field installation. You are receiving this notification because you have been provided one or more of the Enertech inventory numbers stated above, and that there is a potential of electrical shorting in the EHO Servo Board if improperly re-installed.

Enertech manufactured three (3) generations of Servo Boards since the product was introduced (Generation 1 – introduction up to 1995, Generation 2 – 1995 to 2009, & Generation 3 – 2010 to present). This issue is specific to the Generation 2 (second generation) Servo Board. The second generation Servo Board included a 110 VAC trace placed near to the lower left mounting hole. The washer used for securing the Servo Board in place, lands on top of the trace. The Servo Boards are protective coated, providing adequate insulation for the trace. However washer rotation, excessive installation torque and poor alignment of the hardware can potentially scratch the protective coating resulting in a short circuit. The short circuit would prevent the EHO from its ability to continue to modulate, it would either fail open or closed based on the equipment application specification. To date (2) two field issues have been identified where improper field installation damaged the protective coating. Our investigation has resulted in the issuance of this letter expressing concern and proposed remedy.

In order to eliminate potential servo board failures due to improper field installation, Enertech has prepared a retrofit Servo Board Mounting Kit (P/N: MB24022) which we would like to provide to you at no cost if you so desire. The kit comes with a set of hardware and instructions on how to properly field install our Generation 2 Servo Board. If you desire the kit, please contact Enertech Contract Manager, Mr. Edward Buzby. He may be reached (714) 528-2301 extension 369, or by email: edb@curtisswright.com.

Regards,



John "Rusty" DeKleine
Director Quality Assurance

Enertech, a Business Unit of Curtiss-Wright Flow Control Company



November 14, 2012

**Korea Hydro & Nuclear Power
Yeonggwang 5 & 6 Nuclear Generating Station**

ATTN: Mr. Sangbok Kim and Woncheon Yang

Subject: Equipment Alert, Enertech modulating Electro-Hydraulic Operator (EHO), 2nd Generation design Servo Board, improper Installation concern. Enertech Inventory Servo board numbers: D6371S, D5105S, C6395S, C6396S, A4074S, or A3747S.

As a precaution to the EHO users, Enertech has determined that customers owning the above subject equipment may introduce an assembly defect by incorrectly re-assembling the EHO Servo board. There are no concerns with equipment that has been factory installed. The content of this letter will describe the reason for our concern and provides a solution to eliminate any potential failures due to improper field installation. You are receiving this notification because you have been provided one or more of the Enertech inventory numbers stated above, and that there is a potential of electrical shorting in the EHO Servo Board if improperly re-installed.

Enertech manufactured three (3) generations of Servo Boards since the product was introduced (Generation 1 – introduction up to 1995, Generation 2 – 1995 to 2009, & Generation 3 – 2010 to present). This issue is specific to the Generation 2 (second generation) Servo Board. The second generation Servo Board included a 110 VAC trace placed near to the lower left mounting hole. The washer used for securing the Servo Board in place, lands on top of the trace. The Servo Boards are protective coated, providing adequate insulation for the trace. However washer rotation, excessive installation torque and poor alignment of the hardware can potentially scratch the protective coating resulting in a short circuit. The short circuit would prevent the EHO from its ability to continue to modulate, it would either fail open or closed based on the equipment application specification. To date (2) two field issues have been identified where improper field installation damaged the protective coating. Our investigation has resulted in the issuance of this letter expressing concern and proposed remedy.

In order to eliminate potential servo board failures due to improper field installation, Enertech has prepared a retrofit Servo Board Mounting Kit (P/N: MB24022) which we would like to provide to you at no cost if you so desire. The kit comes with a set of hardware and instructions on how to properly field install our Generation 2 Servo Board. If you desire the kit, please contact Enertech Contract Manager, Mr. Edward Buzby. He may be reached (714) 528-2301 extension 369, or by email: edb@curtisswright.com.

Regards,



John "Rusty" DeKleine
Director Quality Assurance

Enertech, a Business Unit of Curtiss-Wright Flow Control Company



November 14, 2012

**Korea Hydro & Nuclear Power
Ulchin 3 & 4 Nuclear Generating Station**

ATTN: Mr. Geunsoo Youk and Byungsoo Jung


Subject: Equipment Alert, Enertech modulating Electro-Hydraulic Operator (EHO), 2nd Generation design Servo Board, improper Installation concern. Enertech Inventory Servo board numbers: D6371S, D5105S, C6395S, C6396S, A4074S, or A3747S.

As a precaution to the EHO users, Enertech has determined that customers owning the above subject equipment may introduce an assembly defect by incorrectly re-assembling the EHO Servo board. There are no concerns with equipment that has been factory installed. The content of this letter will describe the reason for our concern and provides a solution to eliminate any potential failures due to improper field installation. You are receiving this notification because you have been provided one or more of the Enertech inventory numbers stated above, and that there is a potential of electrical shorting in the EHO Servo Board if improperly re-installed.

Enertech manufactured three (3) generations of Servo Boards since the product was introduced (Generation 1 – introduction up to 1995, Generation 2 – 1995 to 2009, & Generation 3 – 2010 to present). This issue is specific to the Generation 2 (second generation) Servo Board. The second generation Servo Board included a 110 VAC trace placed near to the lower left mounting hole. The washer used for securing the Servo Board in place, lands on top of the trace. The Servo Boards are protective coated, providing adequate insulation for the trace. However washer rotation, excessive installation torque and poor alignment of the hardware can potentially scratch the protective coating resulting in a short circuit. The short circuit would prevent the EHO from its ability to continue to modulate, it would either fail open or closed based on the equipment application specification. To date (2) two field issues have been identified where improper field installation damaged the protective coating. Our investigation has resulted in the issuance of this letter expressing concern and proposed remedy.

In order to eliminate potential servo board failures due to improper field installation, Enertech has prepared a retrofit Servo Board Mounting Kit (P/N: MB24022) which we would like to provide to you at no cost if you so desire. The kit comes with a set of hardware and instructions on how to properly field install our Generation 2 Servo Board. If you desire the kit, please contact Enertech Contract Manager, Mr. Edward Buzby. He may be reached (714) 528-2301 extension 369, or by email: edb@curtisswright.com.

Regards,



John "Rusty" DeKleine
Director Quality Assurance
Enertech, a Business Unit of Curtiss-Wright Flow Control Company



November 14, 2012

**Korea Hydro & Nuclear Power
Shin-Wolsong Units 1 & 2 Nuclear Generating Station**

ATTN: Mr. Daeyul Jeong and Juneho Bae

Subject: Equipment Alert, Enertech modulating Electro-Hydraulic Operator (EHO), 2nd Generation design Servo Board, improper Installation concern. Enertech Inventory Servo board numbers: D6371S, D5105S, C6395S, C6396S, A4074S, or A3747S.

As a precaution to the EHO users, Enertech has determined that customers owning the above subject equipment may introduce an assembly defect by incorrectly re-assembling the EHO Servo board. There are no concerns with equipment that has been factory installed. The content of this letter will describe the reason for our concern and provides a solution to eliminate any potential failures due to improper field installation. You are receiving this notification because you have been provided one or more of the Enertech inventory numbers stated above, and that there is a potential of electrical shorting in the EHO Servo Board if improperly re-installed.

Enertech manufactured three (3) generations of Servo Boards since the product was introduced (Generation 1 – introduction up to 1995, Generation 2 – 1995 to 2009, & Generation 3 – 2010 to present). This issue is specific to the Generation 2 (second generation) Servo Board. The second generation Servo Board included a 110 VAC trace placed near to the lower left mounting hole. The washer used for securing the Servo Board in place, lands on top of the trace. The Servo Boards are protective coated, providing adequate insulation for the trace. However washer rotation, excessive installation torque and poor alignment of the hardware can potentially scratch the protective coating resulting in a short circuit. The short circuit would prevent the EHO from its ability to continue to modulate, it would either fail open or closed based on the equipment application specification. To date (2) two field issues have been identified where improper field installation damaged the protective coating. Our investigation has resulted in the issuance of this letter expressing concern and proposed remedy.

In order to eliminate potential servo board failures due to improper field installation, Enertech has prepared a retrofit Servo Board Mounting Kit (P/N: MB24022) which we would like to provide to you at no cost if you so desire. The kit comes with a set of hardware and instructions on how to properly field install our Generation 2 Servo Board. If you desire the kit, please contact Enertech Contract Manager, Mr. Edward Buzby. He may be reached (714) 528-2301 extension 369, or by email: edb@curtisswright.com.

Regards,


John "Rusty" DeKleine
Director Quality Assurance
Enertech, a Business Unit of Curtiss-Wright Flow Control Company



November 14, 2012

**Korea Hydro & Nuclear Power
Shin-Kori Units 1 & 2 Nuclear Generating Station**

ATTN: Mr. Youngju Seo and Seonggyu Lee

Subject: Equipment Alert, Enertech modulating Electro-Hydraulic Operator (EHO), 2nd Generation design Servo Board, improper Installation concern. Enertech Inventory Servoboard numbers: D6371S, D5105S, C6395S, C6396S, A4074S, or A3747S.

As a precaution to the EHO users, Enertech has determined that customers owning the above subject equipment may introduce an assembly defect by incorrectly re-assembling the EHO Servo board. There are no concerns with equipment that has been factory installed. The content of this letter will describe the reason for our concern and provides a solution to eliminate any potential failures due to improper field installation. You are receiving this notification because you have been provided one or more of the Enertech inventory numbers stated above, and that there is a potential of electrical shorting in the EHO Servo Board if improperly re-installed.

Enertech manufactured three (3) generations of Servo Boards since the product was introduced (Generation 1 – introduction up to 1995, Generation 2 – 1995 to 2009, & Generation 3 – 2010 to present). This issue is specific to the Generation 2 (second generation) Servo Board. The second generation Servo Board included a 110 VAC trace placed near to the lower left mounting hole. The washer used for securing the Servo Board in place, lands on top of the trace. The Servo Boards are protective coated, providing adequate insulation for the trace. However washer rotation, excessive installation torque and poor alignment of the hardware can potentially scratch the protective coating resulting in a short circuit. The short circuit would prevent the EHO from its ability to continue to modulate, it would either fail open or closed based on the equipment application specification. To date (2) two field issues have been identified where improper field installation damaged the protective coating. Our investigation has resulted in the issuance of this letter expressing concern and proposed remedy.

In order to eliminate potential servo board failures due to improper field installation, Enertech has prepared a retrofit Servo Board Mounting Kit (P/N: MB24022) which we would like to provide to you at no cost if you so desire. The kit comes with a set of hardware and instructions on how to properly field install our Generation 2 Servo Board. If you desire the kit, please contact Enertech Contract Manager, Mr. Edward Buzby. He may be reached (714) 528-2301 extension 369, or by email: edb@curtisswright.com.

Regards,



John "Rusty" DeKleine
Director Quality Assurance
Enertech, a Business Unit of Curtiss-Wright Flow Control Company



November 14, 2012

**Korea Hydro & Nuclear Power
Ulchin 5 & 6 Nuclear Generating Station**

ATTN: Mr. Dongseon Bae, Wooseok Bae, and Siyong Nam

Subject: Equipment Alert, Enertech modulating Electro-Hydraulic Operator (EHO), 2nd Generation design Servo Board, improper Installation concern. Enertech Inventory Servoboard numbers: D6371S, D5105S, C6395S, C6396S, A4074S, or A3747S.

As a precaution to the EHO users, Enertech has determined that customers owning the above subject equipment may introduce an assembly defect by incorrectly re-assembling the EHO Servo board. There are no concerns with equipment that has been factory installed. The content of this letter will describe the reason for our concern and provides a solution to eliminate any potential failures due to improper field installation. You are receiving this notification because you have been provided one or more of the Enertech inventory numbers stated above, and that there is a potential of electrical shorting in the EHO Servo Board if improperly re-installed.

Enertech manufactured three (3) generations of Servo Boards since the product was introduced (Generation 1 – introduction up to 1995, Generation 2 – 1995 to 2009, & Generation 3 – 2010 to present). This issue is specific to the Generation 2 (second generation) Servo Board. The second generation Servo Board included a 110 VAC trace placed near to the lower left mounting hole. The washer used for securing the Servo Board in place, lands on top of the trace. The Servo Boards are protective coated, providing adequate insulation for the trace. However washer rotation, excessive installation torque and poor alignment of the hardware can potentially scratch the protective coating resulting in a short circuit. The short circuit would prevent the EHO from its ability to continue to modulate, it would either fail open or closed based on the equipment application specification. To date (2) two field issues have been identified where improper field installation damaged the protective coating. Our investigation has resulted in the issuance of this letter expressing concern and proposed remedy.

In order to eliminate potential servo board failures due to improper field installation, Enertech has prepared a retrofit Servo Board Mounting Kit (P/N: MB24022) which we would like to provide to you at no cost if you so desire. The kit comes with a set of hardware and instructions on how to properly field install our Generation 2 Servo Board. If you desire the kit, please contact Enertech Contract Manager, Mr. Edward Buzby. He may be reached (714) 528-2301 extension 369, or by email: edb@curtisswright.com.

Regards,


John "Rusty" DeKleine
Director Quality Assurance
Enertech, a Business Unit of Curtiss-Wright Flow Control Company