

Part 21 (PAR)

Event # 50846

Rep Org: CURTISS WRIGHT	Notification Date / Time: 02/23/2015 17:05 (EST)
Supplier: QUALTECH NP, HUNTSVILLE	Event Date / Time: 02/20/2015 (CST)
	Last Modification: 11/23/2015
Region: 1	Docket #:
City: HUNTSVILLE	Agreement State: Yes
County:	License #:
State: AL	
NRC Notified by: BAMBI RHOADES	Notifications: STEVE ROSE R2DO
HQ Ops Officer: VINCE KLCO	PART 21/50.55 REACTORS EMAIL
Emergency Class: NON EMERGENCY	
10 CFR Section:	
21.21(d)(3)(i) DEFECTS AND NONCOMPLIANCE	

PART 21- POTENTIAL DEFECT IN A SOCKET USED SEPARATELY OR IN A CONNECTOR KIT

The following information was received by facsimile:

"[The Curtiss-Wright] letter is issued to provide notification of a potential defect in Socket (PIN: GB-1 A-5) sold separately or supplied as part of a GRAYBOOT 'A" (GB-1A) Connector Kit. There is one affected lot of Sockets (Lot#: 092413). The potential defect is that the socket was not zone annealed which will possibly affect the ability to crimp the socket onto the wire conductor. Zone annealing is specified for the crimp barrel to return the crimp barrel to a soft condition to counteract the effects of previous heat treating required to develop spring tension in the socket tines that mate with the pin contact.

"The nine affected Customers and their associated Purchase Orders are listed below. All Customers will be notified by February 24, 2015 and supplied with the information we have at this time.

1. Vattenfall- Forsmark Kraftgrupp AB, P.O. 4500301916
2. Vattenfall- Forsmark Kraftgrupp AB, P.O. 4500301916
3. Decon International (HK) Ltd., P.O. DIL00590
4. Ringhals AB, P.O. 641511-090
5. Dremel Inc., P.O. 13-040
6. Bruce Power L.P., P.O. 00185336
7. Kanata Electronic Services Limited, P.O. 34513
8. Meggitt Safety Systems Inc., P.O. 104057
9. Meggitt Safety Systems Inc., P.O. 104345

"Based on our recent in-house testing of socket Lot #: 092413, the defective sockets appear to be more difficult to

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crimp than sockets that have been zone annealed. Some of the Lot #: 092413 sockets showed cracking or bending under magnification. We did not have any sockets actually break apart during the crimping process. All the test specimens crimp barrels remained intact. If a severe fracture had occurred at the time of crimping we believe it would have been very noticeable to the technician installing the contact. Once crimped, the socket appears to function well by conducting electricity and exhibiting acceptable electrical resistance. Many of these sockets from Lot #: 092413 may already be installed. Customers will need to determine if replacing the sockets is required.

"All customers listed may choose to replace already installed sockets. It is requested that any uninstalled sockets be returned for replacement. All customers requesting replacement sockets should contact Bambi Rhoades at brhoades@curtisswright.com or by phone at 256-924-7424 for arrangements or Jim Tomlinson, contact information listed below.

"Send all defective sockets to QualTech NP; 120 West Park Loop; Huntsville, AL 35806. Customer can contact Cindy Tidwell at ctidwell@curtisswright.com or by phone at (256) 924-7436 for help with international or freight collect shipping instructions. Ship all defective sockets collect to UPS Account No. 35254E.

"Additional details, corrective actions and root causes will be provided once our report of the recent testing complete. If you require additional information or would like to discuss this further please do not hesitate in contacting [Jim Tomlinson; Office Phone: (256) 924-7429; email:jtomlinson@curtisswright.com]."

*** UPDATE AT 1304 EST ON 11/23/2015 FROM BAMBI RHOADES TO MARK ABRAMOVITZ ***

The following report was received via fax:

"This letter provides for the formal close out of notification QTHuntsville 10CFR21-2015-01. The initial notification was made on February 20, 2015 (NRC Event# 50846). All customers were notified and received the test data. All customers were given the opportunity to receive replacement sockets, as they deemed necessary. These replacement parts have been delivered. All actions have been completed.

"To prevent reoccurrence in the future, the following internal documents have been revised. The procurement and dedication guidelines for both the original GRAYBOOT and GRAYBOOT 'A' connectors were revised.

"GRAYBOOT 'A' Report No.: SAIC-TR-I038.2-03 currently at Revision P, dated July 16, 2015. GRAYBOOT Report No.: EGS-TR-880708-01 currently at Revision Y, dated July 16, 2015.

"Both the reports above now contain additional destructive testing as well as visual inspection under magnification to provide more reasonable assurance that the annealing is acceptable. Also, additional training was conducted at our sub-supplier and additional requirements have been added to our purchase orders to prevent any reoccurrence .

"Based on the above information and corrective actions, this part 21 file is considered closed. If you would like to discuss this further, please contact Tony Gill (QualTech NP Quality Assurance Manager) at 256-924-7438 (office), 256-426-4558 (mobile) or tgill@curtisswright.com.

Notified the R2DO (Ernstes) and Part-21 Group (via e-mail).



Fax Cover Sheet

To:
Fax Number: 3018165151
Subject: NRC close out letter for Event No. 50846

From: "Rhoades, Bambi" <BRhoades@CURTISSWRIGHT.com>
Fax#: 855-305-6216

Date: 11/23/15 01:02:32 PM

Total Pages: 4 including this cover page

Memo:
Please see attached.

Bambi Rhoades
Senior Product Engineer

Nuclear Division
Curtiss-Wright
125 West Park Loop, Huntsville, AL 35806
T: 256.924.7424 | F: 256.722.8533
brhoades@curtisswright.com

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QualTech NP
Nuclear Division
125 West Park Loop NW
Huntsville, AL 35806
P: 256.722.8500 | F: 256.722.8533
<http://qualtechnp.cwfc.com>

FAX TRANSMITTAL

Urgent Please Reply

Fax To: 301-816-5151

Attention: US NRC

Company:

Phone:

Transmittal Includes Cover Sheet plus 1 Page

cc:

Date Sent: 11/23/15

From: Bambi Rhoades, Senior Product Engineer

Company: QualTech NP, Huntsville Operations

Phone: 256-924-7424

Email: brhoades@curtisswright.com

Attached please find the formal close out letter concerning NRC Event No. 50846 (QTHuntsville10CFR21-2015-01).

Sincerely,

Bambi Rhoades

**CURTISS -
WRIGHT**

QualTech NP
Nuclear Division
125 West Park Loop NW
Huntsville, AL 35806
P: 256.722.8500 | F: 256.722.8533
<http://qualtechnp.cwfc.com>

November 23, 2015

To whom it may concern,

This letter provides for the formal close out of notification QTHuntsville 10CFR21-2015-01. The initial notification was made on February 20, 2015 (NRC Event # 50846). All customers were notified and received the test data. All customers were given the opportunity to receive replacement sockets, as they deemed necessary. These replacement parts have been delivered. All actions have been completed.

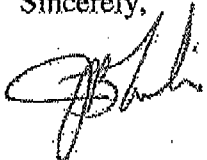
To prevent reoccurrence in the future the following internal documents have been revised. The procurement and dedication guidelines for both the original GRAYBOOT and GRAYBOOT "A" connectors were revised.

GRAYBOOT "A" Report No.: SAIC-TR-1038.2-03 currently at Revision P, dated July 16, 2015.
GRAYBOOT Report No.: EGS-TR-880708-01 currently at Revision Y, dated July 16, 2015.

Both the reports above now contain additional destructive testing as well as visual inspection under magnification to provide more reasonable assurance that the annealing is acceptable. Also, additional training was conducted at our sub-supplier and additional requirements have been added to our purchase orders to prevent any reoccurrence.

Based on the above information and corrective actions this part 21 file is considered closed. If you would like to discuss this further please contact the undersigned or Tony Gill (QualTech NP Quality Assurance Manager) at 256-924-7438 (office), 256-426-4558 (mobile) or tgill@curtisswright.com.

Sincerely,



Jim Tumlinson
Products Engineering Manager

QualTech NP, Huntsville Operations
Curtiss Wright Corporation
256-924-7429 (office)
256-425-8037 (mobile)
jtumlinson@curtisswright.com