



## Fax Cover Sheet

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To:  
Fax Number: 3018165151  
Subject: CW Enertech NRC 19-100 Report From: Rosalie Nava

From: "Valdivia, Sandra" <svaldivia@curtisswright.com>  
Fax#: 855-305-6216

Date: 04/15/19 07:29:10 PM

Total Pages: 5 including this cover page

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### Memo:

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2950 E. Birch Street  
Brea, CA 92821  
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# Fax

<b>To:</b> NRC OPERATIONS CENTER	<b>From:</b> Rosalie Nava
<b>Fax:</b> 301 816-5151	<b>Pages:</b> 3 - Includes Cover Sheet
<b>Phone:</b> N/A	<b>Date:</b> 4-15-19
<b>Re:</b> CW Enertech NRC 19-100 Report	<b>Tel. #:</b> 714 528-2301 Ext. 1872

Urgent     For Review     Please Comment     Please Reply     Please Recycle

**Comments:**

Please see the attached 10-CFR Part 21 for SF-1154 Hydraulic Fluid report.

If you have any questions please contact Ms. Rosalie Nava at the telephone number listed above.

Thank you,



Nuclear Division  
2950 Birch Street  
Brea, CA 92821  
T: 714.528.2301 | F: 714.528.0128

April 15, 2019

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

Subject: 10 CFR Part 21 Notification for SF-1154 Hydraulic Fluid

Reference: CW Enertech NRC 19-100 Report

(i) Name and address of the individual or individuals informing the Commission.

Rosalie Nava, Director Quality Assurance

(ii) Identification of the facility, the activity, or the basic component supplied for such facility or such activity within the United States which fails to comply or contains defect.

Basic Component:

SF-1154 Hydraulic Fluid Batch Number 14ELVS145 provided by CW Enertech to the following:

Detroit Edison Company, Fermi (PO No. 4701009341)  
Duke Energy/Progress Energy, Shearon Harris (PO No. 03021270)  
First Energy Corporation, Beaver Valley (PO No. 45493998)  
Pacific Gas & Electric, Diablo Canyon (PO No. 3501107360, 3501105008)  
Tennessee Valley Authority, Watts Bar (PO No. 2172804)  
First Energy Corporation, Perry (PO No. 45494226)  
Tecnatom, Almaraz NPP (PO No. PP14-1081)

(iii) Identification of the firm constructing the facility or supplying the basic component which fails to comply or contains a defect.

Supplied/dedicated by:  
Curtiss Wright Nuclear Division  
Brea Operations - Enertech  
(CW Enertech)  
2950 Birch Street  
Brea, CA 92821

Manufactured by:  
Momentive Batch Number 14ELVS145

(iv) Nature of the defect or failure to comply and the safety hazard which is created or could be created by such defect or failure to comply.

PG&E notified CW Enertech that they observed white particulate in SF-1154 fluid in three containers. The white particulate was found settled at the bottom of the containers. The fluid was dedicated and supplied by CW Enertech in November 2016. The fluid was traced back to Momentive Batch 14ELVS145.

The Momentive Batch 14ELVS145 was previously reported by Lake Engineering Company (Ref. NRC ML17212A628 and ML17128A465). The white particulates/semisolid material was identified as phenyl cyclic precipitate. The safety hazard that could be created by this defect is the blockage of Snubber bleed port as reported by Duane Arnold (Ref. ML070300154). This blockage could prevent the Snubber from unlocking after a seismic event, thus preventing the Snubber to allow for system movement during normal operations.



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In addition, evaluation performed by Lake Engineering Company has found that all of the solids are dissolved back into the fluid when heated to 110°F. With all solids dissolved, there is no potential safety hazard with this fluid.

(v) The date on which the information of such defect or failure to comply was obtained.

PG&E notified CW Enertech of the defect on February 13, 2019. Three 5 gallon containers of fluid were returned to Enertech on RMA-4215 and received on March 22, 2019 for evaluation.

(vi) In the case of a basic component which contains a defect or fails to comply, the number and location of these components in use at, supplied for, being supplied for, or may be supplied for, manufacture, or being manufactured for one or more facilities or activities subject to the regulations in this part.

CW Enertech procured three 55 gallon drums of Momentive Batch 14ELVS145. The batch was separated into smaller 5 gallon containers and supplied to the following sites:

Detroit Edison Company, Fermi  
Duke Energy/Progress Energy, Shearon Harris  
First Energy Corporation, Beaver Valley  
Pacific Gas & Electric, Diablo Canyon  
Tennessee Valley Authority, Watts Bar  
First Energy Corporation, Perry  
Tecnatom, Almaraz NPP

(vii) The corrective action which has been, is being, or will be taken; the name of the individual or organization responsible for the action; and the length of time that has been or will be taken to complete the action.

In accordance with the Lake Engineering Company report (Ref: ML17212A628 and ML17128A465), Momentive has taken measure to reduce the level of phenyl cyclics in all future batches.

(viii) Any advice related to the defect or failure to comply about the facility, activity, or basic component that has been, is being, or will be given to purchasers or licensees.

Specify a minimum service temperature for fluid application.

(ix) In the case of early site permit, the entities to whom an early site permit was transferred.

Not Applicable

CW Enertech customers noted herein will be notified in accordance with their procurement requirements.

Respectfully,

Rosalie Nava  
Curtiss-Wright Nuclear Division  
Brea Operations - Enertech