

EVENT FOLLOW-UP ASSIGNMENT SHEET

No Sort Specified

QUERY> "HODGE" \$ Assigned To & Assigned Date >= 04/08/96 & Assigned Date <= 04/08/96 & "CRANE" \$ Plant Name

ASSIGNMENT DATE: 04/08/96
 ASSIGNED TO: HODGE V.
 PLANT & UNIT: CRANE-ALOYCO
 EVENT DATE: 04/08/96
 50.72 REPORT NO: 0
 DAILY REPORT DATE: 01/17/95
 OTHER REPORT:

EVENT DESCRIPTION

CRANE VALVES PROVIDES UPDATE ON CONTINUING EFFORTS TO EVALUATE WHETHER ERRONEOUS DATA TO SET TORQUE SWITCHES FOR MOVs WAS SUPPLIED TO LICENSEES DURING MID-1980S. NO CONTRACTURAL EVIDENCE FOUND YET. SEE LOG #94150/95007 ET AL.

SPECIFIC FOLLOW-UP ASSIGNMENT

DETERMINE DETAILS, EVALUATE SAFETY SIGNIFICANCE AND GENERIC IMPLICATIONS.

SAFETY SIGNIFICANCE: SIGEVENT__AO__OTHER_____

OR BRIEFING: _____

EVENT FOLLOW-UP REPORT: INFORMAL

CLOSEOUT DESCRIPTION

PART 21 #95-005

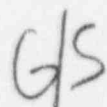
FOR CLOSEOUT INFORMATION, SEE PART 21 #95-006 (EVENT DATE 1/23/95).

REGULATORY ASSESSMENT: This report does not describe a safety problem but does describe misplaced analytical expectations for motor-operated valve operation based on an inadequate model. This model, the first used by Crane to support its customers, has been improved over time, partly in response to NRC generic communications. The panel agrees that this report does not meet the notion of deviation intended by 10 CFR Part 21 and closes it as an other event.

SUMMARY ASSESSMENT: Crane Valves Nuclear Operations (Crane; formerly Crane-Aloyco) supplies analytical support for motor-operated valves to the nuclear power industry. At first it used its original model for this support. In response to NRC Generic Letter 85-03 and supplements, Crane customers specified design parameters outside the original model, prompting Crane to derive a current model. The Part 21 concern arose because the current-model results differed from the original-model results. Crane contacted its customers, holds itself available to support any customer in better understanding and predicting motor-operated valve behavior, provided its customers with current-model analyses as requested, and concludes that data supplied in prior analyses does not constitute a reportable item under Part 21. The Mechanical Engineering Branch concurs that this issue is resolved.

CLOSEOUT/FINDINGS: This issue, called Crane torque data for short (94150, 94292, 95005, and 95024) has been confused with another issue called yoke shim for short (94254, 95006, 95007, and 95035). Several of the reports in each issue refer to log numbers in the other issue. The yoke shim issue is closed in ETS (Crane-Aloyco

SUBMITTED BY: HODGE V. DATE: 11/14/96
 APPROVED BY: R. DENNIG DATE: 11/15/96
 CLOSEOUT NARRATIVE ENTERED: K. Gray DATE: 11/21/96



EVENT FOLLOW-UP ASSIGNMENT SHEET

No Sort Specified

QUERY> "HODGE" \$ Assigned To & Assigned Date >= 04/08/96 & Assigned Date <= 04/08/96 & "CRANE" \$ Plant Name

CLOSEOUT DESCRIPTION (Continued)

assignment to W. Hunemuller 012395, closed 081696).

All the log numbers for the Crane torque data issue are briefly described here. References to other log numbers should be disregarded. Report 94292 is not marked closed, but technical review of the issue by the Mechanical Engineering Branch applies to the whole set.

94150 CRANE VALVE/ALOYCO REPORTS CONDUCT OF EVALUATION TO DETERMINE IF DATA SUPPLIED IN MID-1980s AS CRANE-ALOYCO "OTC" REPORTS WAS USE TO SET TORQUE SWITCHES IN MOVs. DATA MAY HAVE BEEN USED BEYOND INTENDED SCOPE. SEE LOG# 94254/ 94292/ 95007/ 95024.

PECB Comments on 94150: In a ltr dtd May 16, 1994, Crane Valves Nuclear Operations (Crane) advises that they are undertaking this Part 21 evaluation. They have generated over 600 contractual reports relating to this issue.

EMEB closed 94150 as CTBI, stating that the issue regards weak link analysis for MOVs and continuing to track the issue under 94254 (which actually belongs to the yoke shim issue).

94292 - CRANE VALVES NUCLEAR OPERATIONS REPORTS INVESTIGATION TO DETERMINE IF DATA SUPPLIED IN MID-1980 WAS USED BY LICENSEES TO SET TORQUE SWITCHES IN MOVs IS CONTINUING. NO EVIDENCE UNCOVERED TO DATE. SEE LOG# 94150.

PECB Comments on 94292: In a ltr dtd Oct 28, 1994, Crane reports not uncovering any contractual evidence of having supplied erroneous data to utilities.

EMEB closed 94294 as CTBI, continuing to track the issue under 95007 (which actually belongs to the yoke shim issue).

95005 CRANE VALVES PROVIDES UPDATE ON CONTINUING EFFORTS TO EVALUATE WHETHER ERRONEOUS DATA TO SET TORQUE SWITCHES FOR MOVs WAS SUPPLIED TO LICENSEES DURING MID-1980s. NO CONTRACTUAL EVIDENCE FOUND YET. SEE LOG# 94150/95007 ET AL.

PECB Comments on 95005: This log number is the present assignment. In a ltr dtd Dec 28, 1994, Crane repeats the ltr dtd Oct 28, 1994.

95024 CRANE VALVES PROVIDES FINAL REPORT REGARDING ANALYSES TO DETERMINE REQD THRUST FOR MOVs IN RESPONSE TO GLs 85-03/89-10. CONCERN AROSE DUE TO DIFFERENCES IN CURRENT MODEL RELATIVE TO ORIGINAL MODEL. DIFF IDENTIFIED. SEE LOG#94150.

PECB Comments on 95024: In a ltr dtd Jan 12, 1994, Crane reports that their utility customers requested analytical support to determine the required thrust for safety-related valves for purposes of responding to NRC Generic Letter 85-03 and supplements. These requests specified design conditions containing parameters, for example, extended structure mass, extended structure center-of-gravity, AME and AISC allowable stress, and dynamic loading, that are not in the original analysis model. The original potential Part 21 concern arose because the results generated from the current model, which supports analyses containing these additional parameters, appear different from the results obtained using the original model.

Crane claims to have supplied its customers with the analyses they requested. When the scope of these analyses came into question, Crane contacted its customers and holds itself available to support any customer in better understanding and predicting MOV behavior. In addition, Crane provided its customers, on request, with an analysis using the current model. Lastly, Crane concludes that data supplied in prior analyses does not constitute a reportable item under Part 21.

EMEB closed 95024 as CTBI, continuing to track the issue under 94292. The ETS disposition for 95024 refers to the PCB assignment.

The ETS disposition for 95006 refers to 95024: EMEB reviewed 95024, characterized it as Crane's weak link analysis, and initially believed that 95006 was related to 95024. On further review, however, EMEB determined this yoke/adaptor plate weld issue (the yoke shim issue) has been adequately addressed.

EVENT FOLLOW-UP ASSIGNMENT SHEET

No Sort Specified

QUERY> "HGDGE" \$ Assigned To & Assigned Date >= 04/08/96 & Assigned Date <= 04/08/96 & "CRANE" \$ Plant Name

CLOSEOUT DESCRIPTION (Continued)

EMEB has reviewed this summary of the many log numbers and concurs that the Crane torque data issue is resolved.

FINAL PANEL ASSESSMENT: The panel considered the significance of this issue to be consistent with an other event. It was judged to be generic.

JANUARY 17, 1995

Licensee/Facility:

Notification:

Part 21 Database
Crane-Aloyco (Crane Valve)

MR Number: H-95-0006
Date: 01/17/95

Subject:

Reportable Event Number: N/A

Discussion:

VENDOR: CRANE-ALOYCO (CRANE VALVES)
DATE OF DOCUMENT: 12/28/94
SOURCE DOCUMENT: PART 21

PT21 FILE NO: 95005
ACCESSION NUMBER: 9501040173
REVIEWER: EMEB: SCARBROUGH

CRANE VALVES PROVIDES UPDATE ON CONTINUING EFFORTS TO EVALUATE WHETHER
ERRONEOUS DATA TO SET TORQUE SWITCHES FOR MOVs WAS SUPPLIED TO LICENSEES
DURING MID-1980s. NO CONTRACTURAL EVIDENCE FOUND YET. SEE LOG# 94150 ET
AL.

Regional Action:

Contact:

G/6

PRIORITY ATTENTION REQUIRED MORNING REPORT - REGION

JANUARY 20, 1995

Licensee/Facility:

Notification:

Part 21 Database
Crane-Aloyco (Crane Valve)

MR Number: H-95-0009
Date: 01/20/95

Subject:

Reportable Event Number: N/A

Discussion:

VENDOR: CRANE-ALOYCO (CRANE VALVE)

PT21 FILE NO: 95006

DATE OF DOCUMENT: 08/30/94

ACCESSION NUMBER:

SOURCE DOCUMENT: Part 21

REVIEWER: EMEB: R.WESSMAN

CRANE VALVES/NUCLEAR OPERATIONS REPORTS FAILURE OF 10" FIGURE 63174 VALVE AT WELD JOINING YOKE & ADAPTER PLATE & MORE CATASTROPHIC FAILURE TO OTHER PARTS DUE TO INCLUSION OF SHIMS CONTRARY TO DWG. PART OF ORDER TO WEST IN EARLY 1970s. SEE LOG#95007.

Regional Action:

Contact:

6/7

JANUARY 20, 1995

Licensee/Facility:

Notification:

Part 21 Database
Crane-Aloyco (Crane Valve)

MR Number: H-95-0010
Date: 01/20/95

Subject:

Reportable Event Number: N/A

Discussion:

VENDOR: CRANE-ALOYCO (CRANE VALVE)

PT21 FILE NO: 95007

DATE OF DOCUMENT: 12/28/94

ACCESSION NUMBER: 9501040170

SOURCE DOCUMENT: Part 21

REVIEWER: EMEB: R. WESSMAN

CRANE VALVES/NUCLEAR OPERATIONS PROVIDES INTERIM REPORT REGARDING INVEST OF VALVE FAILURE AT PRAIRIE ISLAND. INFO RCVD FROM OTHER PLANTS. FINAL REPORT EXPECTED IN 30 DAYS. SEE LOG#95006.

Regional Action:

Contact:

6/8

JANUARY 27, 1995

Licensee/Facility:

Notification:

Part 21 Database
Crane-Aloyco (Crane Valve)

MR Number: H-95-0033
Date: 01/27/95

Subject:

Reportable Event Number: N/A

Discussion:

VENDOR: CRANE-ALOYCO (CRANE VALVE)

PT21 FILE NO: 95024

DATE OF DOCUMENT: 01/12/95

ACCESSION NUMBER: 9501200336

SOURCE DOCUMENT: Part 21

REVIEWER: EMEB: SCARBROUGH

CRANE VALVES PROVIDES FINAL REPORT REGARDING ANALYSES TO DETERMINE REQD THRUST FOR MOVs IN RESPONSE TO GLs 85-03/89-10. CONCERNAROSE DUE TO DIFFERENCES IN CURRENT MODEL RELATIVE TO ORIGINAL MODEL. DIFF IDENTIFIED. SEE LOG #94150.

Regional Action:

Contact:

JANUARY 31, 1995

Licensee/Facility:

Part 21 Database
Crane-Aloyco (Crane Valve)

Notification:

MR Number: H-95-0044
Date: 01/31/95

Subject:

Reportable Event Number: N/A

Discussion:

VENDOR: CRANE-ALOYCO (CRANE VALVE)

PT21 FILE NO: 95035

DATE OF DOCUMENT: 01/27/95

ACCESSION NUMBER:

SOURCE DOCUMENT: Part 21

REVIEWER: OECB: A. CHAFFEE

CRANE VALVES/NUCLEAR OPERATIONS PROVIDES FINAL REPORT REGARDING FAILURE OF WELDS JOINING YOKE & ADAPTER PLATE ON 10"/12" GATE VALVES. AFFECTED LICENSEES IDENTIFIED & INFORMED. SEE LOG #95006/95007.

Regional Action:

Contact:

G/10