U-600458
L30-86(03-12)-L
1A.120

ILLINOIS POWER COMPANY

CLINTON POWER STATION, P.O. BOX 678, CLINTON, ILLINOIS 61727

March 12, 1986

Docket No. 50-461

Director of Nuclear Reactor Regulation
Attention: Dr. W. R. Butler, Director
BWR Project Directorate No. 4
Division of BWR Licensing
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Subject: Clinton Power Station
Unresolved PVORT Audit Concerns
Pump and Valve Operability Qualification

Dear Dr. Butler:

This letter is in response to unresolved items identified by the NRC Pump and Valve Operability Review Team (PVORT) on the draft safety evaluation report given to Illinois Power on January 28, 1986.

Attached for your Staff's review are responses to four of the five open generic items and responses to the specific concerns of component 1E22-F010. The response for Open Generic Item 5 (Test vs. Analysis Issue) is pending the written response from the NRC of the results of a technical session held in Chicago, Illinois on January 28-29, 1986.

Please contact us if you have any questions on this matter.

Sincerely yours,

D. L. Holtzscher for

F. A. Spangenberg
Manager - Licensing and Safety

CTG/ckc

Attachments

cc: B. L. Siegel, NRC Clinton Licensing Project Manager
NRC Resident Office
Regional Administrator, Region III, USNRC
Illinois Department of Nuclear Safety

B001 1/9 Add: J. Lombardo Ltr Encl 1 1

SUMMARY OF
SET 1 ATTACHMENTS

- ATTACHMENT 1 - NRC's PVORT Generic Concern #3 and Illinois Power's Response
- ATTACHMENT 1A - PVORT Walkdown Result Report

ATTACHMENT 1
ILLINOIS POWER COMPANY
CLINTON POWER STATION

SUBJECT: PVORT Generic Concern #3 - Walkdown Results
Draft SSER Table 3.10.2.1

The NRC PVORT Audit-1 Concern states:

> Components said to be installed and qualified have been turned over to Startup for testing (e.g., 1E22-F001). ''udit finding indicated that the qualification ackage is not for the installed component. Review all installed pumps and valves under the jurisdiction of this program vs. their qualification packages/documentation to assure this is not repeated elsewhere. Upon completion of this review, provide findings and results.

Illinois Power's response is as follows:

> As of February 13, 1986, installation of 753 components out of a total of 762 components have been verified. The remainder 9 components are being installed and will be completed prior to Fuel Load. Attachment 1A lists all components in which there were discrepancies between the qualification package and the walkdown results, and the resolutions of those discrepancies.

PVORT WALKDOWN RESULT REPORT

EQUIPMENT NUMBER	DESCRIPTION OF ANOMOLY	RESOLUTION STATUS
0MC009	Walkdown valve serial numbers do not match	To be resolved by CR 1-86-01-147
0MC010	Walkdown valve serial numbers do not match	To be resolved by CR 1-86-01-147
1B21-F022A	Missing information on walkdown sheet	Information supplied
1B21-F022B	Missing information on walkdown sheet	Information supplied
1B21-F022C	Missing information on walkdown sheet	Information supplied .
1B21-F022D	Missing information on walkdown sheet	Information supplied
1B21-F032A	Namco - EA180 - not functional	To be resolved by Startup, MWR-B33907
1B21-F032B	Namco - EA180 - not functional	To be resolved by Startup, MWR-B33908
1B21-F037J	Walkdown valve/actuator serial numbers do not match	To be resolved by CR 1-86-01-147
1B21-F037K	Walkdown valve/actuator serial numbers do not match	To be resolved by CR 1-86-01-147
1B21-F078A	Walkdown valve serial numbers do not match	To be resolved by CR 1-86-01-147
1B21-F078C	Walkdown valve/actuator serial numbers do not match	To be resolved by CR 1-86-01-147
1B21-F078E	Walkdown valve/actuator serial numbers do not match	To be resolved by CR 1-86-01-147
1B21-F-78H	Walkdown valve/actuator serial numbers do not match	To be resolved by CR 1-86-01-147
1B21-F078K	Walkdown valve/actuator serial numbers do not match	To be resolved by CR 1-86-01-147
1B33-F019	Walkdown valve size does not match	To be resolved by CR 1-86-01-147
1B33-F020	Walkdown valve size does not match	To be resolved by CR 1-86-01-147
1C41-F001A	Elevations do not match with S&L piping dwgs.	Does not affect operability
1C41-F006	Elevations do not match with S&L piping dwgs.	Does not affect operability
1C51-F077	Walkdown valve/actuator serial numbers do not match	To be resolved by CR 1-86-01-147
1CC049	Bldg. location different than S&L piping dwgs.	Does not affect operability
1CC053	Walkdown valve serial numbers do not match	To be resolved by CR 1-86-01-147
1CC054	Walkdown actuator model numbers do not match	To be resolved by CR 1-86-01-147
1CC057	Walkdown valve serial numbers do not match	To be resolved by CR 1-86-01-147
1CC060	Walkdown valve serial numbers do not match	To be resolved by CR 1-86-01-147
1CC060	Walkdown valve serial numbers do not match	To be resolved by CR 1-86-01-147

EQUIPMENT NUMBER	DESCRIPTION OF ANOMOLY	RESOLUTION STATUS
1CC070	Walkdown valve serial numbers do not match	To be resolved by CR 1-86-01-147
1CC070	Bldg. location different than S&L piping dwgs.	Does not affect operability
1CC072	Walkdown actuator model numbers do not match	To be resolved by CR 1-86-01-147
1CC074	Walkdown valve serial numbers do not match	To be resolved by CR 1-86-01-147
1CC127	Walkdown valve serial numbers do not match	To be resolved by CR 1-86-01-147
1CC128	Walkdown valve serial numbers do not match	To be resolved by CR 1-86-01-147
1CM002B	Walkdown actuator model numbers do not match	To be resolved by CR 1-86-01-147
1CM003B	Bldg. location different than S&L piping dwgs.	Does not affect operability
1CM018	Walkdown valve/actuator serial numbers do not match	To be resolved by CR 1-86-01-147
1CM028	Walkdown valve/actuator serial numbers do not match	To be resolved by CR 1-86-01-147
1CY016	Walkdown actuator serial numbers do not match	To be resolved by CR 1-86-01-147
1CY017	Walkdown actuator serial numbers do not match	To be resolved by CR 1-86-01-147
1CY020	Walkdown actuator serial numbers do not match	To be resolved by CR 1-86-01-147
1CY021	Walkdown actuator serial numbers do not match	To be resolved by CR 1-86-01-147
1E12-F009	Walkdown actuator serial numbers do not match	To be resolved by CR 1-86-01-147
1E12-F041A	Walkdown valve serial numbers do not match	To be resolved by CR 1-86-01-147
1E12-F041C	Walkdown valve serial numbers do not match	To be resolved by CR 1-86-01-147
1E12-F048A	Walkdown actuator serial numbers do not match	To be resolved by CR 1-86-01-147
1E12-F052A	Elevations do not match with S&L piping dwgs.	Does not affect operability
1E12-F052B	Elevations do not match with S&L piping dwgs.	Does not affect operability
1E12-F060A	Elevations do not match with S&L piping dwgs.	Does not affect operability
1E12-F060B	Elevations do not match with S&L piping dwgs.	Does not affect operability
1E12-F074A	Walkdown valve/actuator serial numbers do not match	To be resolved by CR 1-86-01-147
1E12-F075A	Elevations do not match with S&L piping dwgs.	Does not affect operability
1E12-F075B	Elevations do not match with S&L piping dwgs.	Does not affect operability
1E12-F087A	Elevations do not match with S&L piping dwgs.	Does not affect operability

PVORT WALKDOWN RESULT REPORT

EQUIPMENT NUMBER	DESCRIPTION OF ANOMOLY	RESOLUTION STATUS
1E21-F005	Walkdown valve serial numbers do not match	To be resolved by CR 1-86-01-147
1E21-F006	Walkdown valve serial numbers do not match	To be resolved by CR 1-86-01-147
1E21-F016	Cover clearance of 5-1/8" with 11" required	Does not affect operability
1E22-F012	Walkdown valve/actuator serial numbers do not match	To be resolved by CR 1-86-01-147
1E22-F023	Missing information on walkdown sheet	Information supplied
1E31-F006	Walkdown actuator serial numbers do not match	To be resolved by CR 1-86-01-147
1E31-F007	Walkdown actuator serial numbers do not match	To be resolved by CR 1-86-01-147
1E31-F008	Walkdown actuator serial numbers do not match	To be resolved by CR 1-86-01-147
1E31-F009	Walkdown actuator serial numbers do not match	To be resolved by CR 1-86-01-147
1E51-F010	Elevations do not match with S&L piping dwgs.	Does not affect operability
1E51-F011	Elevations do not match with S&L piping dwgs.	Does not affect operability
1E51-F022	Walkdown actuator serial numbers do not match	To be resolved by CR 1-86-01-147
1E51-F022	Elevations do not match with S&L piping dwgs.	Does not affect operability
1E51-F031	Elevations do not match with S&L piping dwgs.	Does not affect operability
1E51-F045	Walkdown actuator serial numbers do not match	To be resolved by CR 1-86-01-147
1E51-F045	Walkdown actuator serial numbers do not match	To be resolved by CR 1-86-01-147
1E51-F059	Elevations do not match with S&L piping dwgs.	Does not affect operability
1E51-F059	Walkdown actuator serial numbers do not match	To be resolved by CR 1-86-01-147
1E51-F059	Walkdown actuator serial numbers do not match	To be resolved by CR 1-86-01-147
1E51-F068	Elevations do not match with S&L piping dwgs.	Does not affect operability
1E51-F068	Walkdown actuator serial numbers do not match	To be resolved by CR 1-86-01-147
1E51-F095	Walkdown valve serial numbers do not match	To be resolved by CR 1-86-01-147
1FC007	Walkdown valve serial numbers do not match	To be resolved by CR 1-86-01-147
1FC008	Walkdown does not show operator model	To be resolved by CR 1-86-01-147
1FC011A	Walkdown actuator serial numbers do not match	To be resolved by CR 1-86-01-147
1FC015A	Walkdown actuator serial numbers do not match	To be resolved by CR 1-86-01-147
1FC015B	Walkdown actuator serial numbers do not match	To be resolved by CR 1-86-01-147

PVORT WALKDOWN RESULT REPORT

EQUIPMENT NUMBER	DESCRIPTION OF ANOMOLY	RESOLUTION STATUS
1FC016A	Walkdown actuator serial numbers do not match	To be resolved by CR 1-86-01-147
1FC016B	Walkdown actuator serial numbers do not match	To be resolved by CR 1-86-01-147
1FC023	Walkdown actuator serial numbers do not match	To be resolved by CR 1-86-01-147
1FC024A	Walkdown actuator serial numbers do not match	To be resolved by CR 1-86-01-147
1FC024B	Walkdown actuator serial numbers do not match	To be resolved by CR 1-86-01-147
1FC026A	Walkdown actuator serial numbers do not match	To be resolved by CR 1-86-01-147
1FC026B	Walkdown actuator serial numbers do not match	To be resolved by CR 1-86-01-147
1FP052	Walkdown valve/actuator serial numbers do not match	To be resolved by CR 1-86-01-147
1G33-F004	Walkdown actuator model numbers do not match	To be resolved by CR 1-86-01-147
1G33-F028	Walkdown actuator model numbers do not match	To be resolved by CR 1-86-01-147
1G33-F028	Walkdown actuator serial numbers do not match	To be resolved by CR 1-86-01-147
1G33-F028	Walkdown valve serial numbers do not match	To be resolved by CR 1-86-01-147
1G33-F034	Walkdown actuator model numbers do not match	To be resolved by CR 1-86-01-147
1G33-F039	Walkdown actuator model numbers do not match	To be resolved by CR 1-86-01-147
1G33-F040	Walkdown actuator model numbers do not match	To be resolved by CR 1-86-01-147
1G33-F053	Walkdown valve size does not match	To be resolved by CR 1-86-01-147
1G33-F054	Walkdown actuator serial numbers do not match	To be resolved by CR 1-86-01-147
1PS004	Walkdown valve/actuator serial numbers do not match	To be resolved by CR 1-86-01-147
1SX004A	Walkdown actuator serial numbers do not match	To be resolved by CR 1-86-01-147
1SX013F	Walkdown valve serial numbers do not match	To be resolved by CR 1-86-01-147
1SX019A	Walkdown actuator model numbers do not match	To be resolved by CR 1-86-01-147
1SX019B	Walkdown valve/actuator serial numbers do not match	To be resolved by CR 1-86-01-147
1SX025A	Walkdown actuator model numbers do not match	To be resolved by CR 1-86-01-147
1SX025C	Walkdown actuator model numbers do not match	To be resolved by CR 1-86-01-147
1SX063A	Walkdown actuator serial numbers do not match	To be resolved by CR 1-86-01-147
1SX074A	Missing information on walkdown sheet	Information supplied
1SX074B	Missing information on walkdown sheet	Information supplied

EQUIPMENT NUMBER	DESCRIPTION OF ANOMOLY	RESOLUTION STATUS
1SX075A	Missing information on walkdown sheet	Information supplied
1SX075B	Missing information on walkdown sheet	Information supplied
1SX076A	Missing information on walkdown sheet	Information supplied
1SX076A	Missing information on walkdown sheet	Information supplied
1VP004B	Insulation class does not match Vendor Data Reports	To be resolved by CR 1-86-01-147
1VP015A	Insulation class does not match Vendor Data Reports	To be resolved by CR 1-86-01-147
1VR035	Walkdown valve serial numbers do not match	To be resolved by CR 1-86-01-147
1VR036	Walkdown valve serial numbers do not match	To be resolved by CR 1-86-01-147
1VR040	Walkdown valve serial numbers do not match	To be resolved by CR 1-86-01-147
1VR041	Walkdown valve serial numbers do not match	To be resolved by CR 1-86-01-147
1WO552B	Motor HP is lower than HP per vendor drawing	To be resolved by CR 1-86-01-147

N96

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SLMI-19024
January 31, 1986
Project No. 4536-32
CQD-027959

Illinois Power Company
Clinton Power Station - Unit 1

Generic Item No. 6 of Clinton Draft SSER

Mr. C. Gentile
Nuclear Station Engineering
Illinois Power Company
Clinton Power Station
Mail Code V-390
P. O. Box 306
Clinton, IL 61727

Dear Mr. Gentile:

In response to Generic Item No. 6 of Clinton Draft SSER, we are sending this letter to confirm that new loads resulting from LOCA or analysis of as-built conditions applicable to pump and valve operability have been considered during the analysis. The results of this evaluation showed that the qualification and operability of active pumps and valves was unaffected.

If you have any questions, please do not hesitate to contact me.

Yours very truly,

R. J. Kokesh
Senior Project Engineer
Component Qualification Div.

RJK:bw

Copies:
See Page 2

SARGENT & LUNDY
ENGINEERS
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Mr. C. Gentile
Illinois Power Company

SLMI-19024
January 31, 1986
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CQD-027959

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SUMMARY OF
SET 3 ATTACHMENTS

- ATTACHMENT 3 - NRC's PVORT Generic Concern #7 and Illinois Power's Response
- ATTACHMENT 3A - Limitorque Action Plan
- ATTACHMENT 3B - MOVATS Inspection Status Report

ATTACHMENT 3
ILLINOIS POWER COMPANY
CLINTON POWER STATION

SUBJECT: PVORT Generic Concern #7 - Valve Stem Problems
Draft SSER Table 3.10.2.1

The NRC Audit-2 Concern states:

> As a result of the two audits, three valves have been found to have bent, twisted, or experienced stem failures. IP should perform an investigation/evaluation to determine the total number of valves with this problem and the root cause. The results of this effort are to be categorized and submitted.

Illinois Power's response is as follows:

> The three valves identified during the PVORT audits with valve stem deficiencies are Limitorque Motor Operating Valves. In order to efficiently respond to a variety of industry-related problems concerning Limitorque motor operator valves, IP's Nuclear Station Engineering Department (NSED), with the joint concurrence of Plant Staff and Qualify Assurance, developed the Limitorque Action Plan which is summarized in detail in Attachment 3A. The status of the action item is as of December 23, 1985.
>
> Many of the problem resolutions in this plan are being addressed during MOVATS testing. Attachment 3B provides a status for all safety-related valves which are included in the MOVATS testing program.

GENERIC MOTOR OPERATED VALVE PROBLEMS

PROBLEM-DESCRIPTION	CLOSE-OUT ACTION	Open	Closed	CLOSURE DOCUMENT
1. Limit Switch Rotors	1. Limit Switch Rotors			1. Limit Switch Rotors
A. Material ID. Brown & and white - Containment duty. Red and Black Non-Containment.	A. NSED	[]	[X]	A. NSED - Letter Y-76197, B45, 6-24-85
	MAINT.	[X]	[]	MAINT.- Verify proper rotor color to QA by way of CPS 8451.01 Section 8.1.2.4, Rev 3.
B. Damage. Cracks & chips - Engineering criteria needed for acceptable limits - was done other site.	B. NSED	[]	[X]	B. NSED - CR 1-84-02-047, Letter Y-73868, 080, 12/12/84.
	MAINT.	[X]	[]	MAINT - Verify to QA that work is completed by way of CPS 8451.01, Section 8.1.22, Rev. 3.
C. Pilot holes for pin connector - replacement. Procedure for drilling hole required. Rnf problems. Incorrect & incomplete drilling.	C. NONE	[]	[X]	C. This item was closed at the Action Plan Meeting on 2-19-85 - no evidence of problems.
2. Limit Switch Base	2. Limit Switch Base			2. Limit Switch Base
A. Material ID. Brown & White - containment duty. Red & Black Non-containment.	A. NSED	[]	[X]	A. NSED - Letter Y-76197, B45, 6/24/85.
	MAINT	[X]	[]	MAINT - Verify to QA that work is complete, by way of CPS 8451.01, Section 8.1.2.4, Rev 3.
B. Damage	B. Damage			B. Damage
1. Cracks & chips - Engineering acceptance criteria needed. "Craze" marks in white F.B. glaze.	1. Maint.	[]	[X]	1. CCT 007767
2. Cut, broken contact strips	2. Maint.	[]	[X]	2. CCT 007767

ATTACHMENT 3A
PAGE 1 OF 10

GENERIC MOTOR OPERATED VALVE PROBLEMS

PROBLEM-DESCRIPTION	CLOSE-OUT ACTION	Open	Closed	CLOSURE DOCUMENT
3. Insufficient spring tension/bent. Finger contacts. No contact w/rotor.	3. Maint.	[]	[X]	3. CCT 007767
4. Dirty/corroded contacts - cleaning procedure?	4. Maint.	[]	[X]	4. CCT 007767
C. Loose Mounting Screw	C. Maintenance	[]	[X]	C. CCT 00768
3. Torque Switches	3. Torque Switches			3. Torque Switches
A. Material ID. Brown & White Containment. Red & Black Non-Containment.	A. NSED	[]	[X]	A. NSED - Letter Y-76197, B45, 6/24/85
	MAINT.	[X]	[]	MAINT - Verify to QA that work is completed by way of CPS 8451.01, Section 8.1.2.4, Rev. 3.
B. Missing Torque Limitor Plates - Possible.	B. NSED	[]	[X]	B. NSED controlled safety - Non-safety T.S.S. List issued 3/18/85.
C. Incorrect Initial Torque settings - Solution - Admin. Procedure S/U?	C. NSED	[]	[X]	C. See item 3B.
D. Cracks & chips - acceptance criteria.	D. MAINT	[]	[X]	D. Oct 007767
E. Stripped threads in mellamine/plastic body - Inserts acceptable?	E. NSED	[]	[X]	E. NSED - Letter Y-78652, B45, 12/16/85
	MAINT	[X]	[]	MAINT - Verify to QA that no plastic inserts were used to replace damaged threads in torque switch assemblies.
4. Limitorque Wiring	4. Limitorque Wiring			4. Limitorque Wiring
A. Incorrect wire type	A. NSED	[]	[X]	A. Letter Y-78491, B45, 12/9/85
	S&L	[X]	[]	S&L to rev. EQ-CL025, CCT# 40391
B. Inconsistent/incomplete terminations.	B. MAINT.	[]	[X]	B. CPS Procedure 8451.01 Section 8.2.1.2.

Attachment 3A
Page 2 of 10

GENERIC MOTOR OPERATED VALVE PROBLEMS

PROBLEM-DESCRIPTION	CLOSE-OUT ACTION	Open	Closed	CLOSURE DOCUMENT
C. Terminations exposed on 4 heaters/ torque switch etc. - isolation/ separation barriers required?	C. NSED	[]	[X]	C. Letter Y-78431, B45, 12/5/85.
D. Ty-wraps - White color acceptable in containment?	D. MAINT.	[]	[X]	D. CCT 007769
5. Field Wiring	5. Field Wiring			5. Field Wiring
A. Termination insulation inside limit switch compartment. Raychem shrink tubing massive difficult to provide clearance between Limit Switch Comp Cover and gear train - alternative available? At least for Non-Containment applications?	A. NSED	[]	[X]	A. NSED - Letter Y-25326, N95, 4/15/85.
	MAINT.	[X]	[]	MAINT - Update P.M. Procedure to ensure NPKV kit is used as specified in item 3A letters.
B. Improper type wire installed non-qualified for Rad resistance?	B. CONST.	[]	[X]	B. Resolved during construction phase.
C. Improper ty wraps - White installed for containment duty operator and physical location of hardware inside/outside containment. (CWRs have been written to replace white ty-wraps on containment duty operations located outside the Containment, with "Aqua" ty-wraps.	C. CONST.	[]	[X]	C. See 5B.
D. Ty-wraps in contact with Limit switch Comp. Heater - melted through Const. installation direction needed.	D. CONST.	[]	[X]	D. See 5B
E. Paper Elect. schematics left in Limit Switch Com. - energized heater - reports of burning up paper.	E. CONST.	[]	[X]	E. See 5B
F. Pinches/Scraped insulation - when limit switch compartment cover - moved/removed.	F. CONST.	[]	[X]	F. See 5B

ATTACHMENT 3A
PAGE 3 OF 10

GENERIC MOTOR OPERATED VALVE PROBLEMS

PROBLEM-DESCRIPTION	CLOSE-OUT ACTION	Open	Closed	CLOSURE DOCUMENT
6. Limit Sw Compt & Motor Htrs.	6. Limit Sw Compt & Motor Htrs.			6. Limit Sw Compt & Motor Htrs.
A. Are they even required in most areas of plant? Can Limit switch Comp. and/or motor heaters be left permanently disconnected? except for Screenhouse/outdoor service?	A. NSED	[ ]	[X]	A. Letter Y-78431, B-45 dated 12/5/85.
B. If no for above, is temporary heater conn. really required once MOV installed? In no, disconnected at Turnover? Const. to S/U.	B. NSED	[ ]	[X]	B. See 6A
C. Limit Switch Comp. Heater/exposed terminals close to cover acceptable?	C. NSED	[ ]	[X]	C. This is not a concern since heater is not req'd and will not be energized - See closure document 6A.
7. In general, very little clearance between Limit Switch Compartment and internal rewiring - especially on SMB-000 (the smallest operator Limitorque mn/or) compounded by cast iron cover casting sharp flashing on inside edge, high damage potential for stripping wiring, and bearing on, and breaking Limit Switch rotors, finger bases, and even torque switches. One alternative - replace cover with Limitorque furnished thin wall and light weight aluminum cover or for larger SMB operators - optional diagonal (split 2-piece covers). Additional problem areas, potential observed and/or previously addressed at other sites.	7. MAINT.	[ ]	[X]	7. CCT 00770
8. Unqualified solenoid motor bkrs - identified in GE furnished MOVs in RR valves at other sites.	8. NONE	[ ]	[X]	8. None/Not applicable at CPS.

ATTACHMENT 3A
PAGE 4 OF 10

GENERIC MOTOR OPERATED VALVE PROBLEMS

PROBLEM-DESCRIPTION	CLOSE-OUT ACTION	Open	Closed	CLOSURE DOCUMENT
9. Non-radiation resistant motor windings "RH" type insulation required constainment duty.	9. START-UP	[]	[X]	9. START-UP - Verify RH motors have been installed per CWR, etc.
	CONST.	[]	[X]	CONST. - "No Action" outside scope of work.
10. Non-qualified Limitorque furnished terminal strips - are all removed at Clinton? Including SMC type operators?	10. NSED	[]	[X]	10. Letter from Limitorque (D.S. Warsing) to IPC (A.L.Ruwe) dated 6/5/85. EQ-CL009 package, Rev. 10.
11. Improper drive lock nut staking results in drive lock nut backing off and drive sleeve disengaging from valve stem thereby completely uncoupling Limitorque operator from valve.	11. NSED	[]	[X]	11. NSED - I.E. Circular 79-04, CR 1-84-06-017.
	START-UP	[]	[X]	START-UP - GTP-55, Rev. 1, CR 1-84-06-017.
12. Unqualified Limit Switch compartment and motor heaters.	12. NSED	[]	[X]	12. EQ-CL009, Rev. 5, SLMI-11358, 2/15/84.
13. IE separation criteria - redundant indication/control - required installation of metal separation barrier between Limit Switch train pairs at other sites.	13. NSED	[]	[X]	13. Letter Y-76197, B45, 62/4/85.
14. Mixing and/or improper lubrication or operator gear box - required completed flushout and replacement of all motor operators at one site.	14. NSED	[]	[X]	14. NSED - Letter Y-78548, B45, 12/12/85
	MAINT	[X]	[]	MAINT- Provide QA with verification that proper lubrication criteria is incorporated into P.M. Procedure.
15. Improper separated/concealed or hardening of Limit Switch Gear box grease due to high heat from environment compounded by Limit Switch compartment heaters?	15. NSED	[]	[X]	15. NSED - Letter Y-77993, B45, 10/25/85.
	MAINT.	[X]	[]	MAINT - Provide QA with verification that inspection criteria is incorporated into P. M. Procedure.

ATTACHMENT 3A
PAGE 5 OF 10

GENERIC MOTOR OPERATED VALVE PROBLEMS

PROBLEM-DESCRIPTION	CLOSE-OUT ACTION	Open	Closed	CLOSURE DOCUMENT
16. Improper seals, "O" rings in operator assembly - Containment duty vs. Non-Containment - require different materials - Viton vs. Buna "N".	16. NSED	[]	[X]	16. NSED - Letter Y-32209, N95, 3/26/85. EQ CL009, Rev. 10.
	MAINT	[X]	[]	MAINT- Provide QA with verification that inspection & replacement criteria, as specified in Y-32209 has been incorporated in P.M. Procedure.
17. Leaking seals - grease entering Limit Switch Compartment - wipe down acceptable? Some "weeping" of oil separated from grease due to inactivity of operator is normal per Limitorque?	17. MAINT	[]	[X]	17. CCT 007771.
18. Larger problem occurs when Main gear box orientated above motor leakage into motor windings - study necessary?	18. Action Plan Committee	[]	[X]	18. None/no evidence of problem at CPS.
19. Material problem motor pinion to motor shaft keys. Keys sheared. Required replacement generic at another site.	19. NSED	[]	[X]	19. NSED CR 1-85-01-095
	MAINT	[X]	[]	MAINT - Verify to QA that keys have been requested in Letter Y-77830.
20. Casting defects in Limit Switch four train adapter gear case.	20. NSED	[]	[X]	20. Letter Y-78138, B45, 11/7/85. Letter Y-78139, B45, 11/7/85.
21. Guidelines required for corrosion inhibition use and contact cleaners inside Limit Switch compartment.	21. NSED	[]	[X]	21. NSED- Letter 72842, B45, 8.15.84.
	MAINT	[X]	[]	MAINT- Verify to QA that proper cleaner is used in accordance with CPS 8451.01, Section 3.12, Rev. 3.

ATTACHMENT 3A
PAGE 6 OF 10

GENERIC MOTOR OPERATED VALVE PROBLEMS

PROBLEM-DESCRIPTION	CLOSE-OUT ACTION	Open	Closed	CLOSURE DOCUMENT
22. Concern on valves w/o stem covers/ protection sealing Limitorque casings. Entrance of dirt, settling on stem threads increases torque requirements required for valve travel.	22. NSED	[ ]	[X]	22. Not required, however, could be used for plant betterment.
23. Casting defects in Limitorque drive sleeves have resulted in a catastrophic operator failure at another site.	23. Action Plan Committee	[ ]	[X]	23. None/no evidence except for 3-N/S CW valves.
24. Valves with "non-locking" gear sets required change ingenus or belleville spring packs to prevent overtorque condition condition for fast operating speed valves.	24. CCCD	[ ]	[X]	24. CR-1-83-10-042 closed 12/2/85.
25. Slidewire-type transmitters - not qualified environmentally?	25. NSED	[ ]	[X]	25. NSED - Letter Y-78491, B45, 12/9/85.
	S&L	[X]	[ ]	S&L - M. Spisak to issue closure report on slide wire 12/31/85.
26. SMB-00 Declutch shafts failure prevents manual operation.	26. NSED	[ ]	[X]	26. CR-1-85-02-021, Y-26221, 3/26/85 NCMR 1-1959.
27. Drain Plugs on operators, should they be replaced with breathers? (For motor and limit compartment)	27. NSED	[ ]	[X]	27. NSED - Letter Y-75667, B45, 5/14/85.
	MAINT	[X]	[ ]	MAINT - Verify to QA that inspection is complete in accordance with Engineer Criteria, (Y-75667).
28. Fiber shims under limit switch loosen screws when heated and relax. Loose screws.	28. MAINT	[ ]	[X]	28. CCT 007772 CPS 8451.01, Section 8.1.3, Rev. 3.

ATTACHMENT 3A
PAGE 7 of 10

GENERIC MOTOR OPERATED VALVE PROBLEMS

PROBLEM-DESCRIPTION	CLOSE-OUT ACTION	Open	Closed	CLOSURE DOCUMENT
29. Failure of operators caused by incorrect installation of pinion gear. (IE Notice 85-22)	29. NSED	[ ]	[X]	29. NSED - IEIN 85-22, Letter Y-76590, L30, 7/26/85.
	MAINT	[X]	[ ]	MAINT - Verify to QA that pinion gear orientation is checked by way of CPS 8451.01, Section 8.5.3.1, Rev. 3.
30. Loose stem clamp collars on more operated valve stems. 10CFR21-85-05	30. NSED	[ ]	[X]	30. NSED- CCT 15328 - Y-78030, L13, 10/30/85. NSED controlled document transmittal Transm. # 947.
	MAINT.	[X]	[ ]	MAINT - Inspect & stake MOVs w/stem clamp collars MWR 13246.
31. Damage caused by lack of limit switch and motor compartment heaters.	31. NSED	[ ]	[X]	31. NSED - Y-78030, L14, 10/30/85.
	MAINT	[X]	[ ]	MAINT - Maintenance to inspect & repair MOVs with failed space heaters. CPS 8451.01, Section 8.1.1, Rev. 4.
32. Stem material questions as to the hardness and type of material.	32. NSED	[X]	[ ]	32. NSED - Resolved by IEIN 85-59 Action Plan.
	MAINT	[X]	[ ]	MAINT - Inspect and repair in accordance with IEIN 85-59 Action Plan.
33. Stem problems due to intergranular stress corrision cracking	33. NSED	[X]	[ ]	33. NSED - IEIN 85-59 Y-500117, L08, 11/20/85.
	MAINT	[X]	[ ]	MAINT - Inspect & repair in accordance with IEIN 85-59 Action Plan.

ATTACHMENT 3A
PAGE 8 OF 10

GENERIC MOTOR OPERATED VALVE PROBLEMS

PROBLEM-DESCRIPTION	CLOSE-OUT ACTION	Open	Closed	CLOSURE DOCUMENT
34. Failure of Valves to open and/or close under full system __ P.	34. NSED	[X]	[ ]	34. NSED - Provide thrust values for MOVATS program.
	MAINT	[X]	[ ]	MAINT - Perform full-flow testing on sample of valves which have been MOVATS'ed.
35. One(1) broken and (1) [illegible] stem at CPS.	35. START-UP	[X]	[ ]	35. Stem failure issue action plan. BWS - 85-033, 11/19/85.
36. Evidence of limit and torque switch failure or misadjustment on two (2) valves at CPS.	36. NSED	[X]	[ ]	36. NSED - See Item #34.
	MAINT	[X]	[ ]	MAINT - See Item #34.
37. Evidence of valve seat and back seat damage to two (2) valves at CPS.	37. NSED	[X]	[ ]	37. NSED - See Items #34.
	MAINT.	[X]	[ ]	MAINT - See Item #34.
38. Failure of SB-3-150 motors (AC with magnesium rotors) during the environmental testing for DBE.	38. NSED	[X]	[ ]	38. NSED - NSED to obtain info. from S&L on existance of magensium rotors. S-6053, B45, 11/19/85, CCT #40278.
	S&L	[X]	[ ]	S&L - Determine existance of mag. rotors at CPS - CCT #40278.
39. In excess of 300 MWRs for repair activities, such as failed motors, stroke time, broken limit switches, rotors, gears, seals, etc. on MOVs at CPS.	39. NSED	[X]	[ ]	39. NSED - Currently modifying & updating Letter Y-500017, B45, 5/24/85. "Action Plan" for resolving Limitorque motor operated problems.
	MAINT.	[X]	[ ]	MAINT - Performing inspection and repair in accordance with Letter Y-500017 guidelines.

Attachment 3A
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GENERIC MOTOR OPERATED VALVE PROBLEMS

PROBLEM-DESCRIPTION	CLOSE-OUT ACTION	Open	Closed	CLOSURE DOCUMENT
40. Evidence that vendors are unwilling to supply the information necessary to properly set up the valves (normal seating thrust, normal unseating thrust and maximum thrust allowed to protect the valve.	40. NSED	[X]	[]	40. NSED - Issued open Purchase Orders requesting the subject information to all safety-related vendors. The requisitions are: A/D...........CL1-999 Rockwell.....CL1-998 Xomox.........CL1-997 Posi-seal.....CL1-1001 Yarway........CL1-1000
41. Evidence that local position indicators do not acurately reflect the open & close positions.	41. NSED	[X]	[]	41. NSED - CR 1-85-09-033
42. Torque switch bypass limit switch contacts are wired so there is a possibility that the valve will not open upon demand of safety signal.	42. NSED	[X]	[]	42. NSED - Provide disposition to CR 1-85-12-075
	MAINT	[X]	[]	MAINT - Implement remedial and corrective action identified in CR 1-85-12-075.

ATTACHMENT 3A
PAGE 10 OF 10

BALDWIN ASSOCIATES

(IN CLINTON)

JdE-16-86

TO: Distribution

FROM: J. d'Entremont J d'Entremont

SUBJECT: MOVATS Testing Status

DATE: February 3, 1986

Attached please find the to-date status for all safety related valves which are included in the MOVATS testing program and required for fuel load.

This list will be issued every Monday until the completion of the program.

Should you have any questions, please contact myself or M. Syed at extension 3761.

JdE/mla

Attachment

DISTRIBUTION:

Al Balderson	V-130A
John Emmert	V-928
Floyd Edler	V-270F
Vaughn Harris	T-31
MOVATS	T-31
Larry Tucker	V-600
Mitchell Gant	T-31
Kevin Tempel	T-31
Pete Walberg	V-928
Jack Wilder	V-215
Dan Daniels	V-650
Bob Riedel	V-600
Bob Gruenewald	V-914
R. F.	

STATUS OF MOTOR OPERATED VALVES (ASME) INSPECTION
(MOVATS)

*-LLRT VALVE
NR-NOT REQ'D

VALVE NO.	LOCATION / SCAFFOLD	MWR NO.	BACK-SEAT CHECK	STEM CHECK	A.R. DEVICE	DEFECT. KEY	PREVENTIVE MAINT. PM	LUB.	MOVATS	POS. INDICATOR	LLRT	COMMENTS
1CC049	737' AUX Az. 94° NOT REQ'D	B24296 1-17-86 CLOSED	Completed 1-9-86	Completed 1-14-86	N/A	N/A	Completed 1/10/86	N/A	Completed 1-16-86	Completed 1-14-86	* LLRT RETEST NR/AS OF 1-16-86	
1CC050	737' DRYWELL Az. 59° REQ 1/6/86 Comp. 1/7/86	B26650 CLOSED 1-17-86	Completed 1-9-86	Completed 1/11/86	N/A	N/A	Completed 1/10/86	N/A	Completed 1-16-86	Completed 1-16-86	* LLRT RETEST NR/AS OF 1-16-86	
1CC053	737 CONTAIN. Az. 67° REQ. 1/6/86 Comp. 1/7/86	B26651 CLOSED 1-17-86	Completed 1-10-86	Completed 1/12/86	N/A	N/A	Completed 1/10/86	N/A	Completed 1-16-86	Completed 1-15-86	* LLRT RETEST NR/AS OF 1-16-86	
1CC054	755' FUEL CL. 121' 1AD NOT REQ'D	B26652	Completed 1-10-86	Completed 1-14-86	N/A	N/A	Completed 1/10/86 ① Operator Grease	N/A		Completed 1-14-86	*	NEED REMOVATS
1CC057	755' CONTAIN. AZ. 90° SCAFF. NOT REQ'D	B26653 CLOSED 1-22-86	Completed 1/11/86	Completed 1-12-86	N/A	N/A	Completed 1/10/86	N/A	Completed 1-16-86	Completed 1-14-86	N/A	
1CC060	755' CONTAIN AZ. 101° SCAFF. NOT REQ'D.	B26654 CLOSED 1-17-86	Completed 1-10-86	Completed 1/12/86	N/A	N/A	Completed 1/8/86 ① Motor Drain ② G.L.S Gasket	N/A	Completed 1-17-86	Completed 1-14-86	* LLRT RETEST NR/AS OF 1-17-86	
1CC065	737 CONTAIN. Az 20° SCAFF. NOT REQ'D	B26655	Completed 1/12/86	Completed 1-12-86	N/A	N/A	Completed 1/11/86	N/A			N/A	FPR * 200074 (INTERFERENCE WITH ELEC. CONDUIT)
1CC067	737' CONTAIN AZ 35° SCAFF. NOT REQ'D	B26656 CLOSED	Completed 1/12/86	Completed 1-12-86	N/A	N/A	Completed 1-10-86	N/A	Completed 1-16-86	Completed 1-16-86	N/A	
1CC068	737' CONTAIN AZ. 100° SCAFF. NOT REQ'D.	B26657 1-21-86 CLOSED	Completed 1/12/86	Completed 1-12-86	N/A	N/A	Completed 1-10-86	N/A	Completed 1-16-86	Completed 1-16-86	N/A	

STATUS OF MOTOR OPERATED VALVES (ASME) INSPECTION (MOVATS)

②

* - LLRT VALVE
NR - NOT REQ D

VALVE NO.	LOCATION / SCAFFOLD	MWR NO.	BACK-SEAT CHECK	STEM CHECK	A.R. DEVICE	DEFECT. KEY	PREVENTIVE MAINT. PM	LUB.	MOVATS	POS. INDICATOR	LLRT	COMMENTS
1CC070	737' DRYWELL AZ 108° / NOT REQ.D.	B26658 CLOSED 1-17-86	Completed 1-10-86	Completed 1/12/86	N/A	N/A	Completed 1-10-86 ① Motor Drain	N/A	COMPLETED 1-17-86	COMPLETED 1-17-86	N/A	MWR B29060 TO WORK ON POS INDICATOR.
1CC071	770 DRYWELL AZ 325° REQ 1-15-86 / COMP 1-16-86	B26659		COMPLETED 1-18/86	N/A	N/A	COMPLETED 1-18-86	N/A			*	
1CC072	737' AUX [illegible] REQ 1-15-86 / COMP. 1-16-86	B26660	COMPLETED 1-28-86	COMPLETED 1-15-86	N/A	N/A	COMPLETED 1-15-86	SAMPLING 1-28-86	COMPLETED 1-28-86		* LLRT RETEST 1-28-86 NOT REQ.	
1CC073	737 AUX [illegible] AC REQ. 1-15-86 / COMP 1-16-86	B26661	COMPLETED 1-20-86	COMPLETED 1-20-86	N/A	N/A	COMPLETED 1-18-86	SAMPLING 1-28-86	COMPLETED 1-28-86		* LLRT RETEST N.R. / AS OF 1-28-86	
1CC074	725' DRYWELL AZ 350° / NOT REQ'D	B26662	COMPLETED 1-27-86		N/A	N/A	COMPLETED 1-18-86	N/A	COMPLETED 1-27-86		* LLRT RETEST NR / AS OF 1-27-86	
1CC075 A	737 FUEL [illegible] 109.5' [illegible] / NOT REQ D	B26663		N/A	N/A	N/A		N/A			N/A	TAGOUT FOR REPLACING THE RELIEF VALVE - 1CC185A P.O. X-24843
1CC075 B	737' FUEL Rm F24 / NOT REQ D	B26664		N/A	N/A	N/A	Completed 1/13/86	N/A			N/A	DISC WENT PASS SEAT; NEEDS NEW MWR FOR REWORK ON SEAT
1CC076 A	737 FUEL [illegible] 109.5' [illegible] / NOT REQ D.	B26665		N/A	N/A	N/A.		N/A			N/A	TAGOUT FOR REPLAC. RELIEF VALVE 1CC18 P.O. X24843
1CC076 B	737 FUEL Rm F24 / NOT REQ D	B26666		N/A	N/A	N/A	Completed 1/13/86	N/A			N/A	TO BE REMOVATS

STATUS OF MOTOR OPERATED VALVES (ASME) INSPECTION (MOVATS)

* - LLRT valve
NR - not REQ'D

VALVE NO.	LOCATION / SCAFFOLD	MWR NO.	BACK-SEAT CHECK	STEM CHECK	A.R. DEVICE	DEFECT. KEY	PREVENTIVE MAINT. PM	LUB.	MOVATS	POS. INDICATOR	LLRT	COMMENTS
1CC127	755 Contain 90° AZ NOT REQ'D	B26667 1-20-86 CLOSED	Completed 1-14-86	completed 1-17-86	N/A	N/A	completed 1/7/86	N/A	Complete 1-15-86	completed 1-17-86	* LLRT RETEST NR/AS of 1-15-86	
1CC128	755' Drywell 102° AZ NOT REQ'D	B26668 1-20-86 CLOSED	Completed 1-9-86	completed 1/12/86	N/A	N/A	completed 1/7/86	N/A	completed 1-16-86	Completed 1-14-86	N/A	
1CC188 A	737' Drywell 100° AZ NOT REQ'D	B26669	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	'DELETED' PER REV. 2 OF MOVATS MASTER LIST
1CC188 B	737' Drywell 20° AZ NOT REQ'D	B26670	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	DELETED' PER REV. 2 OF MOVATS MASTER LIST
1C11-F083	------	B26671		N/A	N/A	N/A		N/A				
1CY016	737' AUX 10' [illegible] RCQ 1/7/86	B26672 CLOSED 1-22-86	completed 1-22-86	completed 1-17-86	N/A	N/A	Completed 1/13/86	N/A	completed 1-22-86	completed 1-17-86	* LLRT RETEST NR/AS of 1-24-86	
1CY017	755' Contain 307° AZ NOT REQ'D.	B26673 CLOSED 1-24-86	completed 1-24-86	Completed 1/12/86	N/A	N/A	completed 1-17-86	N/A	completed 1-23-86	completed 1-24-86	* NR/AS of 1-24-86	
1CY020	767 Contain. 45° AZ NOT REQ'D	B26674 CLOSED 1-24-86	completed 1-24-86	completed 1-24-86	N/A	N/A	completed 1-22-86	N/A	completed 1-24-86	completed 1-24-86	N/A	
1CY021	767 Drywell 47° AZ NOT REQ'D	B28861 CLOSED 1-24-86	Completed 1-24-86	completed 1-17-86	N/A	N/A	completed 1-17-86	N/A	completed 1-24-86	Completed 1-24-86	N/A	NCR 1-2056

STATUS OF MOTOR OPERATED VALVES (ASME) INSPECTION
(MOVATS)

(4)

* LLRT VALVE FIR - NOT REQ'D

VALVE NO.	LOCATION / SCAFFOLD	MWR NO.	BACK-SEAT CHECK	STEM CHECK	A.R. DEVICE	DEFECT. KEY	PREVENTIVE MAINT. PM	LUB.	MOVATS	POS. INDICATOR	LLRT	COMMENTS
1FC007	755 CONTAIN. AZ 135° / RCQ 1/7/86 COMP. 1/8/86	B26675		N/A	N/A	N/A	COMPLETED 1-20-86	N/A		COMPLETED 1-20-86	*	NEED NCMR FOR BACKSEATING 2-0651
1FC008	755 FUEL 15' N OF "AH" 12' W OF [illegible] / NOT REQ'D	B26676		N/A	N/A	N/A	COMPLETED 1-20-86				*	NCMR 2-0652
1FC011 A	712' FUEL 12' N OF "AL" 3' E OF 1C28 / NOT REQ'D	B26677		N/A	N/A	N/A	COMPLETED 1-19-86	N/A			N/A	NEEDS MOVATS POSSIBLE WIRING CHANGE
1FC011 B	712' FUEL 6' W OF 712 I 3' S OF "AK" / NOT REQ'D	B26678		N/A	N/A	N/A	COMPLETED 1-15-86	N/A			N/A	NEEDS MOVATS POSSIBLE WIRING CHANGE
1FC015 A	737 FUEL 7' S OF "AK" 11' E OF 1C35 / NOT REQ'D	B26679		N/A	N/A	N/A	COMPLETED 1-17-86	N/A			N/A	NEEDS MOVATS 1-23-86
1FC015 B	737 FUEL ROOM "F2-4" / NOT REQ'D	B26680		N/A	N/A	N/A	COMPLETED 1-17-86	N/A			N/A	NEEDS MOVATS 1-23-86
1FC016 A	712 FUEL 10' N OF "AL" 3' E OF 1C15 / NOT REQ'D	B26681		N/A	N/A	N/A	COMPLETED 1-15-86	N/A			N/A	NEEDS MOVATS 1-23-86
1FC016 B	712' FUEL 10' W OF 112 I 10' S OF "AL" / NOT REQ'D	B26682		N/A	N/A	N/A	COMPLETED 1-15-86	N/A			N/A	NEEDS MOVATS 1-2
1FC024 A	712' FUEL 11' N OF "AL" 5' E OF 1C13 E / NOT REQ'D	B26683		N/A	N/A	N/A	COMPLETED 1-17-86	N/A			N/A	NEEDS MOVATS 1-23-86

STATUS OF MOTOR OPERATED VALVES (ASME) INSPECTION (MOVATS)

* LLRT VALVE
** NOT REQ'D

VALVE NO.	LOCATION / SCAFFOLD	MWR NO.	BACK-SEAT CHECK	STEM CHECK	A.R. DEVICE	DEFECT. KEY	PREVENTIVE MAINT. PM	LUB.	MOVATS	POS. INDICATOR	LLRT	COMMENTS
1FC024 B	712' FUEL 5'-6" W of [illegible] / NOT REQ'D	B26684		N/A	N/A	N/A	COMPLETED	N/A			N/A	NEEDS MOVATS 1-23-86
1FC026 A	737' FULL 15" W of [illegible] / NOT REQ'D	B26685		N/A	N/A	N/A	COMPLETED 1-20-86	N/A			N/A	NEEDS MOVATS 1-23-86
1FC026 B	740' FULL [illegible] REQ	B26686		N/A	N/A	N/A	COMPLETED 1-20-86	N/A			N/A	NEEDS MOVATS 1-23-86
1FP050	------	B24196			N/A	N/A		N/A			*	
1FP051	------	B24194			N/A	N/A					*	
1FP052	------	B24197			N/A	N/A		N/A			*	
1FP053	------	B24198			N/A	N/A		N/A			*	
1FP054	------	B24279			N/A	N/A					*	
1FP078	------	B24199			N/A	N/A		N/A			N/A	

STATUS OF MOTOR OPERATED VALVES (ASME) INSPECTION (MOVATS)

(6)

* LLRT VALVE.
(IV. NOT REQ'D)

VALVE NO.	LOCATION / SCAFFOLD	MWR NO.	BACK-SEAT CHECK	STEM CHECK	A.R. DEVICE	DEFECT. KEY	PREVENTIVE MAINT. PM	LUB.	MOVATS	POS. INDICATOR	LLRT	COMMENTS
1FP079	------	B24200			N/A	N/A		N/A			N/A	
1FP092	------	B26687			N/A	N/A		N/A			*	
1B21-F065 A	------	B24287			N/A			N/A			*	
1B21-F065 B	------	B24288			N/A			N/A			*	
1HG001	------	B24221		N/A	N/A	N/A		N/A			*	
1HG004	------	B24222		N/A	N/A	N/A		N/A			*	
1HG005	------	B24228		N/A	N/A	N/A		N/A			*	
1HG008	------	B24226		N/A	N/A	N/A		N/A			*	
1HG009 A	------	B24165		N/A	N/A	N/A		N/A			N/A	

STATUS OF MOTOR OPERATED VALVES (ASME) INSPECTION (MOVATS)

⑦

* LLRT VALVE [illegible] - NOT [illegible] D.

VALVE NO.	LOCATION / SCAFFOLD	MWR NO.	BACK-SEAT CHECK	STEM CHECK	A.R. DEVICE	DEFECT. KEY	PREVENTIVE MAINT. PM	LUB.	MOVATS	POS. INDICATOR	LLRT	COMMENTS
1HG009 B	------	B24166		N/A	N/A	N/A		N/A			N/A	
1E22-F001	712' FUEL [illegible] of "102" [illegible] of "AH" NOT REQ'D	B26688		COMPLETED 1-23-84	N/A	N/A	COMPLETED 1-31-84	N/A			N/A	
1E22-F004	------	B26689			N/A	N/A		N/A			*	
1E22-F005	------	B26690			N/A	N/A	N/A	N/A	N/A		N/A	
1E22-F010	------	B26691		COMPLETED 1-21-84	[illegible]			N/A			N/A	
1E22-F011	------	B26692			[illegible]			N/A			N/A	[illegible] REMOVED [illegible] 13 M 2
1E22-F012	------	B26693		COMPLETED 1-22-84	N/A	N/A	COMPLETED 1-31-84	N/A			*	
1E22-F015	712' FUEL [illegible] NOT REQ'D	B26694			N/A	N/A		N/A		—	*	
1E22-F023	------	B26695		COMPLETED 1-21-84	[illegible]			N/A			*	

ATTACHMENT 3B

(B)

STATUS OF MOTOR OPERATED VALVES (ASME) INSPECTION
(MOVATS)

* LLRT VALVE
IR - NOT REQ'D

VALVE NO.	LOCATION / SCAFFOLD	MWR NO.	BACK-SEAT CHECK	STEM CHECK	A.R. DEVICE	DEFECT. KEY	PREVENTIVE MAINT. PM	LUB.	MOVATS	POS. INDICATOR	LLRT	COMMENTS
1E22-F024	------	B26696			N/A	N/A	N/A	N/A	N/A		N/A	
1IA012 A	------	B31171		N/A	N/A	N/A		N/A			*	
1IA012 B	------	B31172		N/A	N/A	N/A		N/A			*	
1IA013 A	------	B31173		N/A	N/A	N/A		N/A			*	
1IA013 B	------	B31174		N/A	N/A	N/A		N/A			*	
1E32-F001 A	------	B24201		N/A	N/A	N/A		N/A			*	
1E32-F001 E	------	B24202		N/A	N/A	N/A		N/A			*	
1E32-F001 J	------	B24203		N/A	N/A	N/A		N/A			*	
1E32-F001 N	------	B24204		N/A	N/A	N/A		N/A			*	

STATUS OF MOTOR OPERATED VALVES (ASME) INSPECTION (MOVATS)

⑨

* LLRT VALVE
NR - NOT REQ'D

VALVE NO.	LOCATION / SCAFFOLD	MWR NO.	BACK-SEAT CHECK	STEM CHECK	A.R. DEVICE	DEFECT. KEY	PREVENTIVE MAINT. PM	LUB.	MOVATS	POS. INDICATOR	LLRT	COMMENTS
1E32-F002 A	------	B24205		N/A	N/A	N/A		N/A			N/A	
1E32-F002 E	------	B24206		N/A	N/A	N/A		N/A			N/A	
1E32-F002 J	------	B31175		N/A	N/A	N/A		N/A			N/A	
1E32-F002 N	------	B24210		N/A	N/A	N/A		N/A			N/A	
1E32-F003 A	------	B24209		N/A	N/A	N/A		N/A			N/A	
1E32-F003 E	------	B24212		N/A	N/A	N/A		N/A			N/A	
1E32-F003 J	------	B24213		N/A	N/A	N/A		N/A			N/A	
1E32-F003 N	------	B24214		N/A	N/A	N/A		N/A			N/A	
1E32-F006	------	C28887			N/A	N/A		N/A			N/A	

STATUS OF MOTOR OPERATED VALVES (ASME) INSPECTION (MOVATS)

⑪

*-LLRT VALVE
NR - NOT REQ'D

VALVE NO.	LOCATION / SCAFFOLD	MWR NO.	BACK-SEAT CHECK	STEM CHECK	A.R. DEVICE	DEFECT. KEY	PREVENTIVE MAINT. PM	LUB.	MOVATS	POS. INDICATOR	LLRT	COMMENTS
1E32-F007	------	B24215			N/A	N/A		N/A			N/A	
1E32-F008	------	B28889			N/A	N/A		N/A			N/A	
1E32-F009	------	B24216			N/A	N/A		N/A			N/A	
1E21-F001	707'-6" AUX 12'-0 S of "Z" [illegible] REQ 1/3/86 COMP 1/3/86	B26053	Completed 1-7-86		N/A	N/A	COMPLETED 11-25-85	N/A			*	
1E21-F003	707'-6 AUX 5' N of "Z" 13'-9" W of "124" REQ 1/3/86	B31176			N/A	N/A	N/A	N/A	N/A		N/A	
1E21-F005	737' AUX 5'-0 W of 124 [illegible] NOT REQ'D	B26054			N/A	N/A	COMPLETED [illegible]	N/A			*	MWR # 15442 OPEN (LOOSE STEM)
1E21-F006	767' CONT [illegible] AZ 105°, 19' R NOT REQ'D	B31128			N/A	N/A	N/A	N/A	N/A		N/A	
1E21-F011	707'-6" AUX 2'-0 W of 124 [illegible] NOT REQ'D	B26055		Completed 1/2/86	N/A	N/A	COMPLETED 1/7/86 @ Valve Loose on Stem				*	NEEDS MOVATS
1E21-F012	707'-6 AUX [illegible] W of 124 [illegible] of "AC" NOT REQ'D	B26056		N/A	REQ	N/A	Completed 1/12/86	N/A			*	NEEDS MOVATS

STATUS OF MOTOR OPERATED VALVES (ASME) INSPECTION (MOVATS)

11

* LLRT VALVE NR NOT REQ'D

VALVE NO.	LOCATION / SCAFFOLD	MWR NO.	BACK-SEAT CHECK	STEM CHECK	A.R. DEVICE	DEFECT. KEY	PREVENTIVE MAINT. PM	LUB.	MOVATS	POS. INDICATOR	LLRT	COMMENTS
1E21-F303	107'-6" AUX 5' W of "124" 1'-6" S of "BC" / NOT REQ'D	B31177			N/A	N/A	N/A	N/A	N/A		N/A	
OMC007	731' FUEL BLDG COL. "AD" & "121" / NOT REQ'D	B31179		COMPLETED 1-17-86	N/A	N/A	COMPLETED 1-17-86				* LLRT RETEST REQ'D 1/24/86	FOUND BACKSEATING 1-21-86 MWR# 2-3038 [illegible] MWR# 67487 } 1-23-86
OMC010	739' CONTAIN. AZ 93° 60' RAD / NOT REQ'D	B31180 CLOSED 2-1-86	COMPLETED 1-18-86	COMPLETED 1-17-86	N/A	N/A	COMPLETED 1-17-86	N/A	COMPLETED 1-27-86	COMPLETED 1-31-86	* LLRT RETEST NR/AS OF 1-27-86	
1B21-F001	------	B24283		N/A	N/A	N/A		N/A			N/A	
1B21-F002	------	B24284		N/A	N/A	N/A		N/A			N/A	
1B21-F016	------	B24285			N/A	N/A		N/A			*	
1B21-F019	------	B24286			N/A	N/A		N/A			*	
1B21-F067 A	------	B31181		N/A	N/A	N/A		N/A			*	
1B21-F067 B	------	B31182		N/A	N/A	N/A		N/A			*	

STATUS OF MOTOR OPERATED VALVES (ASME) INSPECTION (MOVATS)

* LLRT VALVE NE - NOT REQ'D

VALVE NO.	LOCATION / SCAFFOLD	MWR NO.	BACK-SEAT CHECK	STEM CHECK	A.R. DEVICE	DEFECT. KEY	PREVENTIVE MAINT. PM	LUB.	MOVATS	POS. INDICATOR	LLRT	COMMENTS
1B21-F067 C	------	B24289		N/A	N/A	N/A		N/A			*	
1B21-F067 D	------	B24290		N/A	N/A	N/A		N/A			*	
1B21-F098 A	------	B24292			N/A			N/A			N/A	
1B21-F098 B	------	B24293			N/A			N/A			N/A	
1B21-F098 C	------	B24294			N/A			N/A			N/A	
1B21-F098 D	------	B24295			N/A			N/A			N/A	
1E12-F003 A	737' AUX 12' E of "114" [illegible] NOT REQ'D	B31184		N/A	[illegible]	N/A		N/A			N/A	
1E12-F003 B	------	B31185		N/A	[illegible]	N/A		N/A			N/A	
1E12-F004 A	707' AUX [illegible] W of "121" [illegible] SCAF REQ'D	B31186			N/A	N/A		N/A			*	

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STATUS OF MOTOR OPERATED VALVES (ASME) INSPECTION (MOVATS)

* LLRT VALVE NR - NOT REQ'D

VALVE NO.	LOCATION / SCAFFOLD	MWR NO.	BACK-SEAT CHECK	STEM CHECK	A.R. DEVICE	DEFECT. KEY	PREVENTIVE MAINT. PM	LUB.	MOVATS	POS. INDICATOR	LLRT	COMMENTS
1E12-F004 B	707' [illegible] [illegible] NOT REQ'D	B31187			N/A	N/A		N/A			*	
1E12-F006 A	707' Aux [illegible] SCAFF. REQ'D	B31188			N/A	N/A		N/A			N/A	
1E12-F006 B	707' Aux [illegible] SCAFF REQ'D	B31189			N/A	N/A		N/A			N/A	
1E12-F008	757' Contain. AZ-0° [illegible]	B28885			N/A	N/A		N/A			*	MWR# 13809
1E12-F009	737' Drywell AZ 0° 23' R Rec 1-30-86	B28886			N/A	N/A		N/A			*	
1E12-F011 A	737' Aux [illegible]	B26643		N/A	"	N/A	Completed 1-27-86				*	
1E12-F011 B	------	B31190		N/A	"	N/A					*	
1E12-F014 A	------	B24217			N/A	N/A		N/A			N/A	
1E12-F014 B	------	B24218			N/A	N/A		N/A			N/A	

(11)

STATUS OF MOTOR OPERATED VALVES (ASME) INSPECTION
(MOVATS)

* LLRT VALVE WR - NOT REQ'D

VALVE NO.	LOCATION / SCAFFOLD	MWR NO.	BACK-SEAT CHECK	STEM CHECK	A.R. DEVICE	DEFECT. KEY	PREVENTIVE MAINT. PM	LUB.	MOVATS	POS. INDICATOR	LLRT	COMMENTS
1E12-F021	707' Aux ------	B31191		N/A		N/A		N/A			*	
1E12-F023	737' Aux [illegible] NOT REQ'D	B31192		N/A		N/A					*	
1E12-F024 A	707' Aux [illegible] NOT REQ'D	B31193			N/A	N/A		N/A			*	
1E12-F024 B	------	B31194			N/A	N/A		N/A			*	
1E12-F026 A	737' Aux [illegible] NOT REQ'D	B31195			N/A	N/A					N/A	
1E12-F026 B	737' Aux [illegible] NOT REQ'D	B31196			N/A	N/A					N/A	
1E12-F027 A	762' Aux [illegible] NOT REQ'D	B31197			N/A	N/A		N/A			*	
1E12-F027 B	737' Aux [illegible] NOT REQ'D	B31198			N/A	N/A		N/A			*	
1E12-F028 A	725' Contain [illegible]	B31199			N/A	N/A		N/A			*	

STATUS OF MOTOR OPERATED VALVES (ASME) INSPECTION (MOVATS)

(15)

* LLRT VALVE
NR - NOT REQ'D

VALVE NO.	LOCATION / SCAFFOLD	MWR NO.	BACK-SEAT CHECK	STEM CHECK	A.R. DEVICE	DEFECT. KEY	PREVENTIVE MAINT. PM	LUB.	MOVATS	POS. INDICATOR	LLRT	COMMENTS
1E12-F028 B	------	B31200			N/A	N/A		N/A			*	
1E12-F031 A	------	B31201			N/A	N/A	N/A	N/A	N/A		N/A	
1E12-F031 B	707' AUX 16' W of "107" 3' E of "[illegible]"	B31202			N/A	N/A	N/A	N/A	N/A		N/A	
1E12-F031 C	------	B31203			N/A	N/A	N/A	N/A	N/A		N/A	
1E12-F041 A	761' DRYWELL AZ 100 COMP 1-29	B31204			N/A	N/A	N/A	N/A	N/A		N/A	
1E12-F041 B	761' DRYWELL AZ 315° 17'R NOT REQ'D	B31205			N/A	N/A	N/A	N/A	N/A		N/A	
1E12-F041 C	767' DRYWELL AZ 125° NOT REQ'D	B31206			N/A	N/A	N/A	N/A	N/A		N/A	
1E12-F042 A	761' AUX AZ 45° 43'R NOT REQ'D	B31207			N/A	N/A		N/A			*	
1E12-F042 B	765' CONTAIN AZ 225° 60'R NOT REQ'D	B31208			N/A	N/A		N/A			*	

STATUS OF MOTOR OPERATED VALVES (ASME) INSPECTION
(MOVATS)

* LLRT VALVE
NR - NOT REQ'D

VALVE NO.	LOCATION / SCAFFOLD	MWR NO.	BACK-SEAT CHECK	STEM CHECK	A.R. DEVICE	DEFECT. KEY	PREVENTIVE MAINT. PM	LUB.	MOVATS	POS. INDICATOR	LLRT	COMMENTS
1E12-F042 C	737 Aux 24' AC [illegible] 104 REQ 1/7/86 COMP. 1/8/86	B31209			N/A	N/A		N/A			*	
1E12-F047 A	------	B31210			N/A	N/A		N/A			N/A	
1E12-F047 B	781 Aux 12' E of '107' 13' [illegible] of 'V'	B31211			N/A	N/A		N/A			N/A	
1E12-F048 * A	737' Aux [illegible] of 'V' 12' [illegible] of NOT REQ	B31212		N/A	[illegible]	N/A		N/A			N/A	
1E12-F048 B	------	B31213		N/A	[illegible]	N/A		N/A			N/A	
1E12-F050 A	762' Aux 14' E of '114' [illegible] 'V' NOT REQ'D	B31214			N/A	N/A	N/A	N/A	N/A		N/A	
1E12-F050 B	762' Aux 14' W of '110' [illegible] of 'V'	B31216			N/A	N/A	N/A	N/A	N/A		N/A	
1E12-F052 A	------	B26644		N/A	[illegible]	N/A	COMPLETED 1-31-86	N/A			N/A	
1E12-F052 2	781 Aux 8' E of '97' [illegible] of 'V'	B26645		N/A	[illegible]	N/A		N/A			N/A	

STATUS OF MOTOR OPERATED VALVES (ASME) INSPECTION
(MOVATS)

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* LLRT VALVE NR. NOT REQ'D

VALVE NO.	LOCATION / SCAFFOLD	MWR NO.	BACK-SEAT CHECK	STEM CHECK	A.R. DEVICE	DEFECT. KEY	PREVENTIVE MAINT. PM	LUB.	MOVATS	POS. INDICATOR	LLRT	COMMENTS
1E12-F053 A	762' Aux 14' E of "114" 8' S of "V"	B26646		N/A	[illegible]	N/A		N/A			*	
1E12-F053 B	------	B26647		N/A	[illegible]	N/A		N/A			*	
1E12-F064 A	707' Aux 14' E of "113" 1' S of "V" NOT REQ'D	B31217			N/A	N/A					*	
1E12-F064 B	707' Aux 16' W of "107" 5' S of "V"	B05975			N/A	N/A					*	
1E12-F064 C	707 Aux 7' W of "105" 1' S of "X" NOT REQ'D	B31218			N/A	N/A					*	
1E12-F068 A	------	B24219			N/A	N/A		N/A			N/A	
1E12-F068 B	------	B24220			N/A	N/A		N/A			N/A	
1E12-F073 A	------	B31219		N/A	N/A	N/A		N/A			N/A	
1E12-F073 B	------	B31220		N/A	N/A	N/A		N/A			N/A	

STATUS OF MOTOR OPERATED VALVES (ASME) INSPECTION (MOVATS)

⑱

* LLRT VALVE NR - NOT REQ'D

VALVE NO.	LOCATION / SCAFFOLD	MWR NO.	BACK-SEAT CHECK	STEM CHECK	A.R. DEVICE	DEFECT. KEY	PREVENTIVE MAINT. PM	LUB.	MOVATS	POS. INDICATOR	LLRT	COMMENTS
1E12-F074 A	------	B31221		N/A	N/A	N/A		N/A			*	
1E12-F074 B	------	B31222		N/A	N/A	N/A		N/A			*	
1E12-F087 A	----	B26648		N/A		N/A		N/A			N/A	
1E12-F087 B	------	B26649		N/A		N/A		N/A			N/A	
1E12-F094	707'-6" Aux 5' E of "107" 17' S of "K" NOT REQ'D	B31223			N/A	N/A					N/A	
1E12-F096	707' Aux 5' E of "107" 7' N of "U" NOT REQ'D	B31225			N/A	N/A					N/A	
1E12-F105	707' Aux 5' W of "105" 15' S of "Z" NOT REQ'D	B31226			N/A	N/A	completed 1-31-84	N/A			*	
1E51-F010	------	B31227			N/A	N/A		N/A			N/A	
1E51-F013	------	B31228			N/A	N/A		N/A			*	

STATUS OF MOTOR OPERATED VALVES (ASME) INSPECTION (MOVATS)

(19)

* LLRT VALVE NR. NOT REQ'D

VALVE NO.	LOCATION / SCAFFOLD	MWR NO.	BACK-SEAT CHECK	STEM CHECK	A.R. DEVICE	DEFECT. KEY	PREVENTIVE MAINT. PM	LUB.	MOVATS	POS. INDICATOR	LLRT	COMMENTS
1E51-F019	------	B26641		N/A	N/A	N/A		N/A			*	
1E51-F022	------	B31229		N/A		N/A		N/A			N/A	
1E51-F031	----	B31230			N/A	N/A		N/A			*	
1E51-F045	------	B26640		N/A		N/A		N/A			N/A	
1E51-F046	------	B26642		N/A	N/A	N/A		N/A			N/A	
1E51-F059	------	B31231			N/A	N/A		N/A			N/A	
1E51-F063	------	B31232			N/A	N/A		N/A			*	
1E51-F064	------	B31234			N/A	N/A		N/A			*	
1E51-F066	------	B31235			N/A	N/A	N/A	N/A	N/A		N/A	

ATTACHMENT 3E
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STATUS OF MOTOR OPERATED VALVES(ASME) INSPECTION (MOVATS)

X LLRT VALVE
[illegible]

VALVE NO.	LOCATION / SCAFFOLD	MWR NO.	BACK-SEAT CHECK	STEM CHECK	A.R. DEVICE	DEFECT. KEY	PREVENTIVE MAINT. PM	LUB.	MOVATS	POS. INDICATOR	LLRT	COMMENTS
1E51-F068	------	B31236			N/A	N/A		N/A			X	
1E51-F077	------	B31237		N/A	N/A	N/A		N/A			X	
1E51-F078	------	B31238			N/A	N/A					X	
1E51-F095	------	B31239		N/A	N/A	N/A		N/A			N/A	
1G33-F001	------	B31240			N/A	N/A		N/A			X	
1G33-F004	------	B31241			N/A	N/A		N/A			X	
1G33-F028	------	B31242			N/A	N/A		N/A			X	
1G33-F0[illegible]	------	B31243			N/A	N/A		N/A			X	
1G33-F055	------	B31244			N/A	N/A		N/A			X	

ATTACHMENT 3B
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STATUS OF MOTOR OPERATED VALVES(ASME) INSPECTION
(MOVATS)

21

* LLRT VALVE
[illegible]

VALVE NO.	LOCATION / SCAFFOLD	MWR NO.	BACK-SEAT CHECK	STEM CHECK	A.R. DEVICE	DEFECT. KEY	PREVENTIVE MAINT. PM	LUB.	MOVATS	POS. INDICATOR	LLRT	COMMENTS
1G33-F040	------	B31245			N/A	N/A		N/A			*	
1G33-F051	------	B31246			N/A	N/A	N/A	N/A	N/A		N/A	
1G33-F052 A	------	B31247			N/A	N/A	N/A	N/A	N/A		N/A	
1G33-F052 B	------	B31248			N/A	N/A	N/A	N/A	N/A		N/A	
1G33-F053	------	B31249			N/A	N/A		N/A			*	
1G33-F054	------	B31250			N/A	N/A		N/A			*	
1C41-F001 A	755' CONTAIN. AZ 25° S.V.R NOT REQ'D	B28872	COMPLETED 1-23-86	N/A		N/A	COMPLETED 1/9/86 1) Motor Drain	N/A	COMPLETED 1-17-86	COMPLETED 1-23-86	N/A	REMOTE POS. INDICATOR
1C41-F001 B	755' CONTAIN. AZ 25° S.O.R NOT REQ'D	B28872	COMPLETED 1-23-86	N/A		N/A	COMPLETED 1/9/86 1) Motor Drain 2) Finger base	N/A	COMPLETED 1-23-86	COMPLETED 1-23-86	N/A	NCMR # 1-2126, NEEDS A.R.D T COMPLETED 1-24-86
1SF001	740' FUEL S... 10° NOT REQ'D	B05971			N/A	N/A	COMPLETED 1-23-86		COMPLETED 1-24-86		* LLRT RETEST REQ'D 1-24-86	NEEDS TO GO TO T

ATTACHMENT 3B
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STATUS OF MOTOR OPERATED VALVES (ASME) INSPECTION (MOVATS)

23

* LLRT VALVE
NR - NOT REQ'D

VALVE NO.	LOCATION / SCAFFOLD	MWR NO.	BACK-SEAT CHECK	STEM CHECK	A.R. DEVICE	DEFECT. KEY	PREVENTIVE MAINT. PM	LUB.	MOVATS	POS. INDICATOR	LLRT	COMMENTS
1SF002	740' Fuel 5' of AD 103 / NOT REQ'D	B31251	NCMR to be initiated	Completed 1-17-86	N/A	N/A	Completed 1-15-86	Sampling 1-17-86		Completed 1-17-86	*	NCMR # 2-064 MWR # B27688 FOR 7000 lbs THRUST ON BACKSEAT.
1SF004	712 Aux 7' N of "AC" 2' [illegible] of "CC" / SCAFF. NOT REQ	B05970		N/A	N/A	N/A					*	PLANT MOD # SF 68 [illegible] ECN # 6507 FOR [illegible]
1SM001 A	Containment 4' W of "117" 14' N of "AC"	B31252		N/A	N/A	N/A	Completed 1-22-86	N/A			N/A	
1SM001 B	803' Containment 4' W of "107" 3' S of "AC" / NOT REQ'D	B31253		N/A	N/A	N/A	Completed 1-22-86	N/A			N/A	
1SM002 A	Containment 5' W of "117" 14' N of "AC" / NOT REQ'D	B31254		N/A	N/A	N/A	Completed 1-22-86	N/A			N/A	
1SM002 B	803' Containment 4' W of "107" 3' S of "AC" / NOT REQ'D	B31255		N/A	N/A	N/A	Completed 1-22-86	N/A			N/A	
1SX003 A	------	B31256		N/A	N/A	N/A		N/A			N/A	
1SX003 B	------	B31257		N/A	N/A	N/A		N/A			N/A	
1SX003 C	------	B31258		N/A	N/A	N/A		N/A			N/A	

STATUS OF MOTOR OPERATED VALVES (ASME) INSPECTION (MOVATS)

23

F LLRT VALVE
NR - NOT REQ'S

VALVE NO.	LOCATION / SCAFFOLD	MWR NO.	BACK-SEAT CHECK	STEM CHECK	A.R. DEVICE	DEFECT. KEY	PREVENTIVE MAINT. PM	LUB.	MOVATS	POS. INDICATOR	LLRT	COMMENTS
1SX004 A	------	B31259		N/A	N/A	N/A		N/A			N/A	
1SX004 B	------	B31260		N/A	N/A	N/A		N/A			N/A	
1SX004 C	------	B31261		N/A	N/A	N/A		N/A			N/A	
1SX006 C	------	B31262		N/A	N/A	N/A		N/A			N/A	
1SX008 A	------	B31263		N/A	N/A	N/A		N/A			N/A	
1SX008 B	------	B31264		N/A	N/A	N/A		N/A			N/A	
1SX008 C	------	B31265		N/A	N/A	N/A		N/A			N/A	
1SX011 A	------	B31266		N/A	N/A	N/A		N/A			N/A	
1SX011 B	------	B31267		N/A	N/A	N/A		N/A			N/A	

STATUS OF MOTOR OPERATED VALVES (ASME) INSPECTION (MOVATS)

24

& LLRT VALVE
NR - NOT REQD

VALVE NO.	LOCATION / SCAFFOLD	MWR NO.	BACK-SEAT CHECK	STEM CHECK	A.R. DEVICE	DEFECT. KEY	PREVENTIVE MAINT. PM	LUB.	MOVATS	POS. INDICATOR	LLRT	COMMENTS
1SX012 A	737 Aux [illegible]	B31269		N/A	N/A	N/A		N/A			N/A	
1SX012 B	------	B31270		N/A	N/A	N/A		N/A			N/A	
1SX013 D	------	B31271		N/A	N/A	N/A		N/A			N/A	
1SX013 E	------	B31272		N/A	N/A	N/A		N/A			N/A	
1SX013 F	------	B31273		N/A	N/A	N/A		N/A			N/A	
1SX014 A	------	B31274		N/A	N/A	N/A		N/A			N/A	
1SX014 B	------	B31275		N/A	N/A	N/A		N/A			N/A	
1SX014 C	------	B31276		N/A	N/A	N/A		N/A			N/A	
1SX016 A	------	B31277			N/A	N/A					N/A	

STATUS OF MOTOR OPERATED VALVES (ASME) INSPECTION (MOVATS)

* LLRT VALVE
NR: NOT REQ'D

VALVE NO.	LOCATION / SCAFFOLD	MWR NO.	BACK-SEAT CHECK	STEM CHECK	A.R. DEVICE	DEFECT. KEY	PREVENTIVE MAINT. PM	LUB.	MOVATS	POS. INDICATOR	LLRT	COMMENTS
1SX016 B	------	B24278			N/A	N/A					N/A	
1SX017 A	------	B24263		N/A	N/A	N/A		N/A			N/A	
1SX017 B	------	B24264		N/A	N/A	N/A		N/A			N/A	
1SX020 A	------	B24243		N/A	N/A	N/A		N/A			N/A	
1SX020 B	------	B24277		N/A	N/A	N/A		N/A			N/A	
1SX062 A	------	B31278		N/A	N/A	N/A		N/A			N/A	
1SX062 B	------	B31279		N/A	N/A	N/A		N/A			N/A	
1SX063 A	------	B24267		N/A	N/A	N/A		N/A			N/A	
1SX063 B	------	B24281		N/A	N/A	N/A		N/A			N/A	

STATUS OF MOTOR OPERATED VALVES (ASME) INSPECTION (MOVATS)

* LLRT VALVE NR. NOT REQ'D

VALVE NO.	LOCATION / SCAFFOLD	MWR NO.	BACK-SEAT CHECK	STEM CHECK	A.R. DEVICE	DEFECT. KEY	PREVENTIVE MAINT. PM	LUB.	MOVATS	POS. INDICATOR	LLRT	COMMENTS
1SX071 A	719' Control [illegible] W of "[illegible]" [illegible] N of "AD" NOT REQ'D	B24280 CLOSED	Completed 12/31/85	COMPLETED 1-14-86	N/A	N/A	COMPLETED 12/30/85 ① G.L.S Grease	Sampling 1-14-85	Completed 1-11-86	Completed 1-11-86	N/A	
1SX071 B	719' Diesel Gen 1'6" E of "134" 2'9" N of "AD" NOT REQ'D	B24268 CLOSED	Completed 12/27/85	COMPLETED 1-14-86	N/A	N/A	COMPLETED 12/27/85 ① Finger base	SAMPLING 1-14-86	COMPLETED 1-14-86	COMPLETED 1/11/86	N/A	
1SX073 A	719' Diesel Gen 6" E of "128" 3'6" S of "AC" ?	B24269			N/A	N/A		N/A			N/A	
1SX073 B	------	B24270			N/A	N/A		N/A			N/A	
1SX074 A	825' Control 2'9" W of "132" [illegible] N of "V" NOT REQ'D	B24271	Completed 1/11/86	Completed 1/13/86	N/A	N/A	COMPLETED 1/6/86	N/A	COMPLETED 1-13-86	COMPLETED 1-11-86	N/A	WCMR 2-0395 FPR 7973
1SX074 B	825' Control [illegible] E of "135" [illegible] "V" NOT REQ'D	B24272 CLOSED	Completed 1/13/86	Completed 1/13/86	N/A	N/A	COMPLETED 1/6/86	N/A	COMPLETED 1-14-86	COMPLETED 1-11-86	N/A	
1SX076 A	825' Control [illegible] E of "132" [illegible] "V" NOT REQ'D	B24273 CLOSED	COMPLETED 1-14-86	Completed 1/13/86	N/A	N/A	COMPLETED 1/6/86	N/A	COMPLETED 1-14-86	COMPLETED 1-14-85	N/A	
1SX076 B	[illegible] NOT REQ'D	B24274 CLOSED	COMPLETED 1-14-85	COMPLETED [illegible]	N/A	N/A	COMPLETED [illegible]	N/A	COMPLETED 1-14-86	COMPLETED 1-15-85	N/A	
1SX082 A	------	B24223			N/A	N/A					N/A	

STATUS OF MOTOR OPERATED VALVES (ASME) INSPECTION (MOVATS)

*LLRT VALVE NR NOT REQ'D

VALVE NO.	LOCATION / SCAFFOLD	MWR NO.	BACK-SEAT CHECK	STEM CHECK	A.R. DEVICE	DEFECT. KEY	PREVENTIVE MAINT. PM	LUB.	MOVATS	POS. INDICATOR	LLRT	COMMENTS
1SX082 B	------	B24224			N/A	N/A					N/A	
1SX088 A	------	B24167			N/A	N/A					*	
1SX088 B	------	B24168			N/A	N/A					*	
1SX089 A	------	B24169			N/A	N/A		N/A			*	
1SX089 B	------	B24170			N/A	N/A		N/A			N/A	
1SX095 A	------	B24172			N/A	N/A		N/A			N/A	
1SX095 B	------	B24171			N/A	N/A		N/A			*	
1SX096 A	------	B24175			N/A	N/A		N/A			*	
1SX096 B	------	B24174			N/A	N/A		N/A			*	

STATUS OF MOTOR OPERATED VALVES (ASME) INSPECTION
(MOVATS)

* LLRT VALVE NO. NOT REQ'D

VALVE NO.	LOCATION / SCAFFOLD	MWR NO.	BACK-SEAT CHECK	STEM CHECK	A.R. DEVICE	DEFECT. KEY	PREVENTIVE MAINT. PM	LUB.	MOVATS	POS. INDICATOR	LLRT	COMMENTS
1SX097 A	------	B24176			N/A	N/A					*	
1SX097 B	------	B24178			N/A	N/A					*	
1SX105 A	825' Control 5'-10" E of 132" 3' - N of Y NOT REQ D	B24275	Completed 1-14-86	RC = 30.4 Needs UT 1/12/86	N/A	N/A	Completed 1/7/86	N/A	Completed 1/11/86	Completed 1-14-86	N/A	
CLOSED 1SX105 B	825' Control 5'-10" W of 129" 3' - N of Y	B24276 Closed 1-14-86	Completed 1-3-86	Completed 1/12/86	N/A	N/A	Completed 1/7/86	N/A	COMPLETED 1-13-86	Completed 1-8-86	N/A	
1SX107 A	825' Control 5'-10" E of 132" 3' - N of Y NOT REQ'D	B24230 CLOSED	Completed 1-14-86	Completed 1/12/86	N/A	N/A	Completed 1/7/86 ① G.C.S. Grease	N/A	Completed 1-14-86	Completed 1-10-86	N/A	Possible a[illegible] on grease
1SX107 B	825' Control 5'-10" W of 129" 3' - N of Y NOT REQ D	B24231 CLOSED	Completed 1/11/86	Completed 1-14-86	N/A	N/A	Completed 1/7/86	N/A	Completed 1/12/86	Completed 1/11/86	N/A	
1SX173 A	------	B24227			N/A	N/A		N/A			N/A	
1SX173 B	------	B24225			N/A	N/A		N/A			N/A	
2SX017 A	------	B24232		N/A	N/A	N/A		N/A			N/A	

STATUS OF MOTOR OPERATED VALVES (ASME) INSPECTION
(MOVATS)

29

[illegible] VALVE
NR NOT REQ'D

VALVE NO.	LOCATION / SCAFFOLD	MWR NO.	BACK-SEAT CHECK	STEM CHECK	A.R. DEVICE	DEFECT. KEY	PREVENTIVE MAINT. PM	LUB.	MOVATS	POS. INDICATOR	LLRT	COMMENTS
2SX017 B	------	B24233		N/A	N/A	N/A		N/A			N/A	
2SX073 A	------	B24234			N/A	N/A		N/A			N/A	
2SX073 B	------	B24235			N/A	N/A		N/A			N/A	
2SX076 A	------	B24236			N/A	N/A		N/A			N/A	ww/[illegible]
2SX076 B	825' Control [illegible] NOT REQ'D	B24239			N/A	N/A		N/A			N/A	
2SX107 A	------	B24240			N/A	N/A		N/			N/A	
2SX107 B	------	B24241			N/A	N/A		N/A			N/A	
1VP004 A	------	B24179			N/A	N/A		N/A			*	
1VP004 B	------	B24180			N/A	N/A		N/A			*	

STATUS OF MOTOR OPERATED VALVES (ASME) INSPECTION (MOVATS)

*LLRT VALVE NO [illegible] REQ'D

VALVE NO.	LOCATION / SCAFFOLD	MWR NO.	BACK-SEAT CHECK	STEM CHECK	A.R. DEVICE	DEFECT. KEY	PREVENTIVE MAINT. PM	LUB.	MOVATS	POS. INDICATOR	LLRT	COMMENTS
1VP005 A	------	B24181			N/A	N/A		N/A			*	
1VP005 B	------	B24182			N/A	N/A		N/A			*	
1VP014 A	------	B24183			N/A	N/A		N/A			*	
1VP014 B	------	B24184			N/A	N/A		N/A			*	
1VP015 A	------	B24185			N/A	N/A		N/A			*	
1VP015 B	------	B24186			N/A	N/A		N/A			*	
1VQ006 A	755' [illegible] / SCAFF NOT REQ	B31282		N/A	[illegible]	N/A		N/A			*	
1VQ006 B	769 [illegible] AZ 147° / SCAFF NOT REQ.	B31283		N/A	[illegible]	N/A		N/A			*	
1VR002 A	------	B24187		N/A	[illegible]	N/A		N/A			*	

STATUS OF MOTOR OPERATED VALVES (ASME) INSPECTION (31).
(MOVATS)

* LLRT VALVE
[illegible]

VALVE NO.	LOCATION / SCAFFOLD	MWR NO.	BACK-SEAT CHECK	STEM CHECK	A.R. DEVICE	DEFECT. KEY	PREVENTIVE MAINT. PM	LUB.	MOVATS	POS. INDICATOR	LLRT	COMMENTS
1UR002 B	------	B24188		N/A		N/A		N/A			*	
1WO001 A	------	B31284			N/A	N/A		N/A			*	
1WO001 B	------	B31285			N/A	N/A		N/A			*	
1WO002 A	------	B31286			N/A	N/A		N/A			*	
1WO002 B	------	B31287			N/A	N/A		N/A			*	
1WO551 A	------	B24189		N/A	N/A	N/A		N/A			N/A	
1WO551 B	------	B24190		N/A	N/A	N/A		N/A			N/A	
1WO552 A	------	B24192		N/A	N/A	N/A		N/A			N/A	
1WO552 B	------	B24193		N/A	N/A	N/A		N/A			N/A	

STATUS OF MOTOR OPERATED VALVES (ASME) INSPECTION
(MOVATS)

(32)

* LLRT VALVE
NR. NOT REQ'D

VALVE NO.	LOCATION / SCAFFOLD	MWR NO.	BACK-SEAT CHECK	STEM CHECK	A.R. DEVICE	DEFECT. KEY	PREVENTIVE MAINT. PM	LUB.	MOVATS	POS. INDICATOR	LLRT	COMMENTS
1B21-F005	-------	B24158		N/A	N/A	N/A		N/A			N/A	
1B21-F068	-------	B24291		N/A	N/A	N/A		N/A			N/A	
1B33-F023 A	-------	B31288		N/A	N/A	N/A		N/A			N/A	
1B33-F023 B	-------	B31289		N/A	N/A	N/A		N/A			N/A	
1B33-F067 A	-------	B24162		N/A	N/A	N/A		N/A			N/A	
1B33-F067 B	-------	B31290		N/A	N/A	N/A		N/A			N/A	
1C41-F318	DELETED ------- N/A	B31291 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	'DELETED' PER REV. 2 OF MOVATS MASTER LIST
E12-F037 A	E/O Contain. AZ 70°, 57'6 ------- NOT REQ'D	B31292		N/A	"	N/A		N/A			*	
1E12-F037 B	E/O Contain. AZ 110° ------- NOT REQ'D	B31293		N/A	"	N/A		N/A			*	

ATTACHMENT 3B
PAGE 33 OF 36

STATUS OF MOTOR OPERATED VALVES (ASME) INSPECTION (MOVATS)

* LLRT VALVE
[illegible] NOT REQ'D

VALVE NO.	LOCATION / SCAFFOLD	MWR NO.	BACK-SEAT CHECK	STEM CHECK	A.R. DEVICE	DEFECT. KEY	PREVENTIVE MAINT. PM	LUB.	MOVATS	POS. INDICATOR	LLRT	COMMENTS
1E12-F040	------	B05974		N/A		N/A					N/A	
1E12-F049	------	B05973		N/A	N/A	N/A					N/A	
1E51-F076	------	B31294		N/A	N/A	N/A		N/A			*	
1E51-F412	------	B31295		N/A	N/A	N/A		N/A			N/A	
1FC027	------	B31296		N/A	N/A	N/A	completed 1-22-86	N/A			N/A	
1FC037	755' CONTAIN AZ 127° CIR / NOT REQ'D	B31297		N/A	N/A	N/A	completed 1-22-86	N/A			*	
1G33-F031	------	B31298		N/A		N/A		N/A			N/A	
1G33-F039	------	B26637		N/A	N/A	N/A					N/A	
1G33-F042 A	------	B31299		N/A		N/A		N/A			N/A	

(77)

STATUS OF MOTOR OPERATED VALVES (ASME) INSPECTION
(MOVATS)

*LLRT VALVE NR. NOT REQ ?

VALVE NO.	LOCATION / SCAFFOLD	MWR NO.	BACK-SEAT CHECK	STEM CHECK	A.R. DEVICE	DEFECT. KEY	PREVENTIVE MAINT. PM	LUB.	MOVATS	POS. INDICATOR	LLRT	COMMENTS
1G33-F042 B	------	B31300		N/A	"	N/A		N/A			N/A	
1G33-F044	------	B31301		N/A	"	N/A		N/A			N/A	
1G33-F046	------	B31302		N/A	N/A	N/A		N/A			N/A	
1G33-F100	------	B31303		N/A	N/A	N/A		N/A			N/A	
1G33-F101	------	B31304		N/A	N/A	N/A		N/A			N/A	
1G33-F102	------	B31305		N/A	"	N/A		N/A			N/A	
1G33-F101	------	B31306		N/A	"	N/A		N/A			N/A	
1G33-F106	------	B31307		N/A	N/A	N/A		N/A			N/A	
1G33-F107	------	B31308		N/A	"	N/A		N/A			N/A	

(55)

STATUS OF MOTOR OPERATED VALVES (ASME) INSPECTION
(MOVATS)

* LLRT VALVE
NR - NOT REQ'D

VALVE NO.	LOCATION / SCAFFOLD	MWR NO.	BACK-SEAT CHECK	STEM CHECK	A.R. DEVICE	DEFECT. KEY	PREVENTIVE MAINT. PM	LUB.	MOVATS	POS. INDICATOR	LLRT	COMMENTS
1FC036	755 FUEL 5' W OF '121' [illegible] BE REQ	B05972	Completed 1-27-86	N/A	N/A	N/A	Completed 1-23-86		Completed 1-27-86		*	
1E51-C002E											N/A	
1B21-F032A											*	
1B21-F032B											*	
1B21-F010A											*	
1B21-F010B											*	

SUMMARY OF
SET 4 ATTACHMENTS

- ATTACHMENT 4 - NRC's PVORT Ge eric Concern #8 and Illinois I wer's Response
- ATTACHMENT 4A - CPS Condition Report Resolution Request (DGT-85-434).
- ATTACHMENT 4B - Engineering Evaluation of Condition Report 1-35-12-030 (Y-79172).

ATTACHMENT 4
ILLINOIS POWER COMPANY
CLINTON POWER STATION

SUBJECT: PVORT Generic Concern #8 - Operator Key Damage
Draft SSER Table 3.10.2.1

The NRC PVORT Audit-2 Concern states:

> Valves FC-015A, 015B, and 024 were found to have damage to the operator key valve shaft connection. This was attributed to the manual stops on the actuator not being properly adjusted. However, the root cause was never determined. IP should perform an evaluation/survey to determine if there is any other valve assembly (valve and actuator) that did or may have this improperly adjusted manual stop to ensure that there is no damage and operability is not impaired.

Illinois Power's response is as follows:

> Condition Report 1-85-12-030 was initiated in order to address the above problem on a generic basis. The CR was then transmitted to NSED for an engineering evaluation to determine the Root Cause, Remedial Corrective Action, and Generic Corrective Action [see Attachment 4A - Memo DGT-85-434]. NSED performed the evaluation with the results shown in Attachment 4B - NSED Letter Y-79172.

CPS CONDITION REPORT RESOLUTION

CR 1-85-12-030

TO: J. F. Hampton, V-928

FROM: D. G. Tucker, V-130D

DATE: December 21, 1985

SUBJECT: Engineering Evaluation Of The Condition Described On CR 1-85-12-030

It is requested that NSED perform an investigation of the concern addressed on CR No. 1-85-12-030 to determine the Root Cause, Remedial Corrective Action, and Generic Corrective Action to correct the discrepancy and prevent recurrence. It is requested this evaluation be completed by January 21, 1985.

Startup's action(s) will be implemented as appropriate, based upon NSED's recommendation(s).

If there are any questions, contact S. A. Gregg at extension 3690.

DGT/HWM/csm
DGT 85-434
MEMO18

Attachment

cc: J. H. Greene, V-130A
J. A. Miller, V-130D
M. Mull, V-928
S. A. Gregg, V-130D
C/F

CPS No. 0AP1016.01F002
(Rev. 0)
N102-438 (6/83)

CPS CONDITION REPORT RESOLUTION

CR No. CR-1-85-12-030

DUE DATE	RESPONSIBLE DEPT/GROUP	ACTION
	NSED 12/27/85	NSED is in agreement with Startup that a more extensive investigation is required by Engineering and may require Vendor involvement.
		Based upon discussions with NSED, letter DGT 85-434 was initiated; requesting NSED's involvement (Attachment "A").
	12-27-85	ACTION
1/21/86	NSED	1) NSED is requested to determine the Root Cause, recommended Remedial Corrective Action and Generic Corrective Action to Correct and prevent recurrence. This Action will the completed by 1/21/86.
2/03/86	SU	2) Based upon NSED's recommendation(s), Startup will implement any appropriate Corrective Action(s). Startup's Corrective Action, if required will be implemented by 2/03/86.
		Continued on next page

Dept Head/APPM 12/27/85
Signature/Date

Power Plant Manager
(If required) Signature/Date

CPS CONDITION REPORT RESOLUTION

CR No. CR -1-85-12-030

DUE DATE	RESPONSIBLE DEPT/GROUP	ACTION
3/05/86	SU	3) The completion of any required Corrective
		Action will be completed by 3/05/86.

Dept Head/APPM J H Green 12/27/85
Signature/Date

Power Plant Manager
(If required) ____________________
Signature/Date

CPS CONDITION REPORT

12/12/85

CLASS CODE: SNQN
ILLINOIS POWER COMPANY
CPS NO. 1016.01F001 (REV. 6)

SEVERITY LEVEL C3 0621 TIME

C.R. No. 1-85-12-030 | REV 0

SHEET__OF__

1. ORIGINATOR	DEPARTMENT	DATE	SYSTEM	LOCATION
R. HUSTON	IPSU	12/10/85	N/A	N/A

EVENT DATE 12-10-85 TIME 11:28 STATUS 6 POWER N/A %

2. REQUIREMENTS REFERENCE (TITLE, DOCUMENT No., REV, DATE, SECTION, etc.):
- ☐ TECHNICAL SPECIFICATION
- ☐ 10CFR ___ SECTION
- ☐ PROCEDURE No. ___ PARA
- ☐ RAD WORK PERMIT No.
- ☐ NONE
- ☒ OTHER OQAM, CHAPTER 15

3. DESCRIPTION OF CONDITION

VALVE OPERATOR TO SHAFT KEY DAMAGE AND VALVE SHAFT DAMAGE FOR 1FC015A, 1FC015B AND 1FC024A WERE IDENTIFIED BY CR 1-85-08-07 AND 1-85-08-014. SUBSEQUENT EVALUATION (AND CLOSURE OF CR'S) WAS PERFORMED BY NCMR'S 1-1614 AND 1-1615. PRIOR DAMAGE TO OTHER SIMILAR PLANT VALVES HAS NOT BEEN ADDRESSED. DAMAGE OCCURRED DURING VALVE OPERATION WITH IMPROPER ADJUSTMENT OF MANUAL LIMITORQUE STOPS.

4. IMMEDIATE ACTION TAKEN

WROTE THIS CR

5. MATERIAL/PART/COMPONENT NONCONFORMANCE

☐ YES ☒ NO IF YES [initials] 12/16/85

- SAFETY RELATED ☐
- NON-SAFETY RELATED ☐
- AUG-D/RADWASTE ☐
- FIRE PROTECTION RELATED ☐
- ASME ☐
- NOT KNOWN ☐
- NOT APPLICABLE ☐

6. POTENTIAL 10CFR21/50.55(e) ☐ YES ☒ NO REVIEWED BY/DATE [signature] / 12/12/85

POWER PLANT MANAGER

7. INVESTIGATION/NOTIFICATION ASSIGNMENTS NOTIFY ☐ NRC ☐ STATE ☐ OTHER ☒ N/A

INVESTIGATION ASSIGNED TO JHG/Startup (DEPT./ORGANIZATION) ASSIGNED BY [signature] 12/16/85 (DATE)

LER EVALUATION

8. LER NO. ☐☐-☐☐☐-☐☐ LER DUE BY: N/A

INVESTIGATING DEPARTMENT

9. REMEDIAL ACTION, INVESTIGATION RESULTS AND CORRECTIVE ACTION

RESPONSIBLE DEPT. ___ / ___ SIGNATURE/DATE

QA-FRG REVIEW

10. QA REVIEW

S' ATUP

11. FRG REVIEW

SIGNATURE/DATE

/ SIGNATURE/DATE

CLASS CODE: SNON
ILLINOIS POWER COMPANY
CPS NO. 1OHL02F001(REV.3)

CPS NONCONFORMING MATERIAL REPORT

SEVERITY LEVEL C2 ____ TIME

2. NCMR NO. 1-1614
SHEET 1 OF ___

1. ORIGINATOR	DEPARTMENT	DATE	SYSTEM	BLDG/ELEV. / ROW/COL
T.E. FERIOZZI	CCCD	8-2-85	FC	SEE ATTACHED

ITEM IDENTIFICATION/NOMENCLATURE
VALVES 1FC015A, 1FC015B + 1FC024 A

FIRE PROTECTION / AUG D/RADWASTE / SAFETY-RELATED
☐ NON QUALITY RELATED
☒ QUALITY RELATED
☐ OTHER ____
☒ ~~ASME SEC III~~

3. REQUIREMENTS REFERENCE (TITLE, DOCUMENT NO. REV., PARA., SECT., ETC.)
SEE BLOCK 2 CR 1-85-08-007 R/0

PURCHASE ORDER/DATE
N/A

4. DESCRIPTION OF NONCONFORMANCE
SEE BLOCK 3 OF CR# 1-85-08-007 R/0

5. POTENTIAL 10CFR21/50.55(e) ☐ YES ☒ NO

INVESTIGATION ASSIGNED TO IPSU/JHG
DEPARTMENT/ORGANIZATION
Tom Feriozzi / 8-2-85
CCCD / DATE

6. STATUS (TAGS/STICKERS ATTACHED)
☐ QC HOLD ☐ NA
☒ NONCONFORMANCE ☒ NO. OF TAGS 1.3 INITIAL/DATE TEF/8-2-85

7. DISPOSITION
☐ USE AS-IS ☐ REPAIR ☒ REWORK ☐ REJECT ☒ ENGINEERING EVALUATION ATTACHED
☐ DOCUMENT REVISION REQUIRED ☒ OTHERS

NSED J.M. Edwards 8/2/85

8. REMEDIAL CORRECTIVE ACTION/INVESTIGATION RESULTS
No operational restraints
W.H.G. 8/2/85

9. GENERIC CORRECTIVE ACTION

10. RESPONSIBLE ORGANIZATION	11. QUALITY ASSURANCE	12. ANI/ANII CONCURRENCE

13. DISPOSITION IMPLEMENTATION
IMPLEMENTING DOCUMENTS ____

QC VERIFICATION DOCUMENTS ____
QC ____
SIGNATURE / DATE

14. RESPONSIBLE ORGANIZATION	15. QUALITY ASSURANCE	16. ANI/ANII CONCURRENCE

17. FRG CLOSEOUT REVIEW
____ SIGNATURE ____ DATE

18. CCCD CLOSEOUT
____ SIGNATURE ____ DATE

CPS CONDITION REPORT

CLASS CODE: SNQN
ILLINOIS POWER COMPANY
CPS NO. 1016.01F001 (REV.8)

C.R. No.	REV	SEVERITY LEVEL	TIME
1-85-08-007	0	C2	1427

SHEET 1 OF ___

1. ORIGINATOR	DEPARTMENT	DATE	SYSTEM	LOCATION
R. Ganser	IP/SU	08/02/85	FC	712/737 FUEL

EVENT DATE NA TIME NA STATUS 6 POWER N/A %

2. REQUIREMENTS REFERENCE (TITLE, DOCUMENT No., REV, DATE, SECTION, etc.):
- ☐ TECHNICAL SPECIFICATION ______
- ☐ 10CFR ______ SECTION ______
- ☐ PROCEDURE No. ______ PARA ______
- ☐ RAD WORK PERMIT No. ______
- ☐ NONE
- ☒ OTHER K2FCB

3. DESCRIPTION OF CONDITION

1FC015A – Limitorque key to valve shaft is
1FC015B – damaged.
1FC024 A A QVS 8/2/85

4. IMMEDIATE ACTION TAKEN

Initiated MWRs B08424, B08422, B08423

5. MATERIAL/PART/COMPONENT NONCONFORMANCE

☒ YES ☐ NO IF YES [illegible] 8/2/85

- SAFETY RELATED ☒
- NON-SAFETY RELATED ☐
- AUG-D/RADWASTE ☐
- FIRE PROTECTION RELATED ☐
- ASME ☐
- NOT KNOWN ☐
- NOT APPLICABLE ☐

6. POTENTIAL 10CFR21/50.55(e) ☐ YES ☒ NO REVIEWED BY/DATE [signature] 8-2-85

POWER PLANT MANAGER

7. INVESTIGATION/NOTIFICATION ASSIGNMENTS NOTIFY ☐ NRC ☐ STATE ☐ OTHER ☒ N/A

INVESTIGATION ASSIGNED TO JHG/SU (DEPT./ORGANIZATION) ASSIGNED BY [signature] 8/2/85 (DATE)

LER EVALUATION

8. CATEGORY 6 CATEGORIZED BY: RR LER No. NA LER DUE BY NA

INVESTIGATING DEPARTMENT

9. REMEDIAL ACTION, INVESTIGATION RESULTS AND CORRECTIVE ACTION

FOR INFORMATION ONLY

RESPONSIBLE DEPT. ______ / ______ SIGNATURE/DATE

QA-FRG REVIEW

10. QA REVIEW

SIGNATURE/DATE

11. FRG REVIEW

SIGNATURE/DATE

12. CLOSE OUT:

______ / ______ SIGNATURE/DATE

CPS NONCONFORMING MATERIAL REPORT
ENGINEERING EVALUATION

1. 1-1614 ATTACHMENT 4A PAGE 7 OF 11
NCMR Number

Page 1 of ______

EVALUATION:

a. REWORK. REPLACE DAMAGED LIMITORQUE KEYS IN ACCORDANCE WITH LIMITORQUE MAINTENANCE MANUAL PROCEDURES.

b. OTHER. REVISE GTP-55 TO ADJUST MANUAL LIMITORQUE STOPS TO MATCH VALVE BODY STOPS IN ORDER TO PREVENT DAMAGE TO KEYS IN THE FUTURE.

3. AFFECTED DOCUMENTS:

Document	Post	Incorp.
N/A		

4. ACTION REQUIRED:

	Yes	No
Perform ANSI N45.2.11 review		X
Perform 10 CFR 50.59 review		X
Perform Appendix R review		X
Concurrence for ASME related		X

5. STAMP:

FSAR/TECH SPEC CHG
NOT REQUIRED/JME 8/2/85
INT DATE

6. J.M. Edwards 8/2/85
Prepared by Date

7. FK Heston 8-2-85
Reviewed/Concurred by Date

8. FK Heston 8-2-85
Approved by Date

Form D.O-1 (1/21/85)

CLASS CODE: SNON
ILLINOIS POWER COMPANY
CPS NO. 1016.02F001 (REV. 3)

CPS NONCONFORMING MATERIAL REPORT

SEVERITY LEVEL ______ TIME

2. NCMR NO. 1-1615
SHEET ___ OF ___

1. ORIGINATOR: B McIntosh
DEPARTMENT: CCCD
DATE: 8-3-85
SYSTEM: FC
BLDG/ELEV. See
ROW/COL Attached

ITEM IDENTIFICATION/NOMENCLATURE: VALVE 1FC024A

FIRE PROTECTION / AUG D/RADWASTE / SAFETY-RELATED
☐ NON QUALITY RELATED
☒ QUALITY RELATED
☐ OTHER ______
☐ ASME SEC ______

3. REQUIREMENTS REFERENCE (TITLE, DOCUMENT NO. REV., PARA., SECT., ETC.): See CR 1-85-08-014 R/0
PURCHASE ORDER/DATE: NA

4. DESCRIPTION OF NONCONFORMANCE
VALVE STEM TWISTED

SEE CR 1-85-08-014 R/0

5. POTENTIAL 10CFR21/50.55(e) ☐ YES ☒ NO

INVESTIGATION ASSIGNED TO: JHG / IPSU — DEPARTMENT / ORGANIZATION
BMcIntosh — CCCD / 8-3-85 — DATE

6. STATUS (TAGS/STICKERS ATTACHED)
☐ QC HOLD
☒ NONCONFORMANCE
☐ NA
☒ NO. OF TAGS / 1 — INITIAL/DATE BM 8-3-85

7. DISPOSITION
☐ USE AS-IS ☐ REPAIR ☒ REWORK ☐ REJECT ☒ ENGINEERING EVALUATION ATTACHED
☐ DOCUMENT REVISION REQUIRED ☐ OTHERS
NSED: J K Heston 8-3-85

8. REMEDIAL CORRECTIVE ACTION/INVESTIGATION RESULTS
No constraints other than existing tagouts
[signature] 8-3-85

9. GENERIC CORRECTIVE ACTION

10. RESPONSIBLE ORGANIZATION | 11. QUALITY ASSURANCE | 12. ANI/ANII CONCURRENCE

13. DISPOSITION IMPLEMENTATION
IMPLEMENTING DOCUMENTS ______
QC VERIFICATION DOCUMENTS ______
QC ______ SIGNATURE / DATE

14. RESPONSIBLE ORGANIZATION | 15. QUALITY ASSURANCE | 16. ANI/ANII CONCURRENCE

17. FRG CLOSEOUT REVIEW
______ SIGNATURE ______ DATE

18. CCCD CLOSEOUT
______ SIGNATURE ______ DATE

CPS CONDITION REPORT

CLASS CODE: SNQN
ILLINOIS POWER COMPANY
CPS NO. 1016.01F001 (REV.5)

C.R. No.	REV	SEVERITY LEVEL	TIME	
1-85-08-014	0	C3	1041	SHEET 1 OF ___

1. ORIGINATOR	DEPARTMENT	DATE	SYSTEM	LOCATION
M.W. Tuck	IP/SU	8/3/85	FC	FUEL BLDG

EVENT DATE 8/3/85 TIME 0919 STATUS 6 POWER N/A %

2. REQUIREMENTS REFERENCE (TITLE, DOCUMENT No., REV, DATE, SECTION, etc.):
☐ TECHNICAL SPECIFICATION ______ ☐ RAD WORK PERMIT No. ______
☐ 10CFR ______ SECTION ______ ☒ NONE ______
☐ PROCEDURE No. ______ PARA ______ ☐ OTHER ______

3. DESCRIPTION OF CONDITION
VALVE 1FC-024A STEM IS TWISTED AND will NOT TAKE A full LENGTH key.

REF. CR# 85-08-007
mwR# 08424

4. IMMEDIATE ACTION TAKEN mwR ~~0806~~ 08424 WAS INITIATED TO REPLACE KEY THIS COULD NOT BE ACCOMPLISHED BECAUSE OF TWISTED SHAFT. RECOMMEND INSTALLING SHORT KEY SO THAT SYSTEM TESTING CAN BE COMPLETED. WORK TO BE PERFORMED ON MWR 08424

5. MATERIAL/PART/COMPONENT NONCONFORMANCE

☒ YES ☐ NO IF YES

SAFETY RELATED ☒
NON-SAFETY RELATED ☐
AUG-D/RADWASTE ☐
FIRE PROTECTION RELATED ☐
ASME ☐
NOT KNOWN ☐
NOT APPLICABLE ☐

6. POTENTIAL 10CFR21/50.55(e) ☐ YES ☒ NO REVIEWED BY/DATE [illegible signature] / 8/9/85

POWER PLANT MANAGER

7. INVESTIGATION/NOTIFICATION ASSIGNMENTS NOTIFY ☐ NRC ☐ STATE ☐ OTHER ☒ N/A

INVESTIGATION ASSIGNED TO S/U / NSSS (DEPT./ORGANIZATION) ASSIGNED BY [illegible signature] / 8-3-85 (DATE)
SS-828

LER EVALUATION

8. CATEGORY [A] CATEGORIZED BY: [illegible signature] LER No. N/A LER DUE BY

INVESTIGATING DEPARTMENT

9. REMEDIAL ACTION, INVESTIGATION RESULTS AND CORRECTIVE ACTION

RESPONSIBLE DEPT. ______ SIGNATURE/DATE ______

QA-FRG REVIEW

10. QA REVIEW
SIGNATURE/DATE

11. FRG REVIEW
SIGNATURE/DATE

12. CLOSE OUT:

SIGNATURE/DATE

NCR 1-1615

SHEET ____ OF ____

LOCATION ATTACHMENT

SCMR NO. 1-1615 NCR/CR NO. 1-85-08-014 DRAWING NO. M05-1032 sht 3

TAG NO. 1 of 1 EQUIP. ID. NO. 1FC024A

Building: Fuel System: FC

Floor Elevation: 712 TOP: ____

Row & Column/Azimuth: ≈ 11' W/112, 10' N AL

Elevation of Nonconformance: 716 Room No. "A" FC pump room

Specific Directions: Include any and all information useful in location of nonconformance. For Arc Strikes, measure form nearest item on spool (weld, valve, instrument, etc.).

CPS NONCONFORMING MATERIAL REPORT
ENGINEERING EVALUATION

1. 1-1615
NCMR Number

Page 1 of 1

2. EVALUATION:

REWORK: BY OBTAINING NEW VALVE STEM AND KEY FROM VENDOR AND INSTALLING THEM IN THE SUBJECT VALVE.

JUSTIFICATION: TWISTING OF SHAFT IS EVIDENCE OF PLASTIC DEFORMATION WHICH WHEN UNCONTROLLED RENDERS ITS STRUCTURAL INTEGRITY INDETERMINATE.

NOTE: VALVE 1FC-24A IS TO BE CONDITIONALLY RELEASED TO ALLOW THE INSTALLATION OF A SHORTENED TEMPORARY KEY WHICH IS NON-TRACEABLE SO THAT SYSTEM TESTING CAN CONTINUE. SHORTENED KEY IS TO BE STAMPED WITH THE WORD "TEMP." FOR FUTURE IDENTIFICATION. THIS NCMR IS TO REMAIN OPEN UNTIL THE NEW MATERIAL IS OBTAINED AND INSTALLED.

3. AFFECTED DOCUMENTS:

Document	Post	Incorp.
N/A EK 8/3/85		

4. ACTION REQUIRED:

	Yes	No
Perform ANSI N45.2.11 review		✓
Perform 10 CFR 50.59 review		✓
Perform Appendix R review		✓
Concurrence for ASME related	✓	

5. STAMP:

FSAR/TECH SPEC CHG NOT REQUIRED EK 8/3/85
BY DATE

6. Elrich Hurd — Prepared by — Date 8/3/85

7. J K Hester — Reviewed/Concurred by — Date 8-3-85

8. JM Munie — Approved by — Date 8/3/85

ATTACHMENT 4B
PAGE 1 OF 2

073-86(01-28)-6
Y-79172
January 28, 1986

TO: D. G. Tucker

FROM: D. L. Logan, V-928 DLS

SUBJECT: Engineering Evaluation of Condition Report 1-35-12-030

Reference: Letter DGT 85-434 From D. G. Tucker to J. F. Hampton, Dated 12/21/85.

As requested in your reference letter, NSED mechanical section has performed an investigation of the condition described in CR 1- 85-12-030 and recommends the following engineering evaluation:

Root Cause- The scope of this condition is limited to Posi-Seal Butterfly Valves. It orginated from operating the valves before properly adjusting their operator's full-closed limit switch. Adjustment to the limit switch is specified in GTP-55 to prevent the valve Disc from being driven into the seat (i.e. valve stop*) and causing a large force to be applied to the valve's stem and key. This condition occures when the valve disc hits the valve stop and the stem and key are the only components preventing the operator gear from continuing its rotation.

* The valve stop is only used on Posi-Seal butterfly valves, which is the only type of valve this condition addresses.

REMEDIAL CORRECTIVE ACTION- Valves 1FC015A, B and 1FC024A have been repaired by way of NCMR's 1-614 and 1-615. Prior damage to similar plant valves should be repaired by replacing those damaged keys and stems with Posi-Seal replacement parts. These valves will be identified in the inspection and testing actions listed in the "Generic Corrective Action" section of this letter.

GENERIC CORRECTIVE ACTION- For the remainder of those valves which still require GTP-55 testing, Start-Up should train their testing engineers to pay particular attention to sections 6.9 and 7.6 of the GTP-55 testing. Section 6.9 specifies that special pre-caution should be used to ensure that limit switches are set to de-energize the relay logic to prevent "hammer" and that these limits be set to allow for any "coasting" of the valve after de-energization. Section 7.6 cautions the testing engineer that before energizing the operator, he should take valve drift into account when setting full open and full closed limit switches to prevent the valve from being driven hard against its backseat or into its seat.

All Safety-Related Motor-Operated (M.O.) Valves are currently under going MOVATS testing which is scheduled to be completed by fuel load. As part of this testing the technician is required to obtain the "as-found" seating and un-seating

thrust* of the valve. If the limit switch is improperly set in relation to the valve stop, the "as-found" torque valve will be higher than the vendor maximum thrust value. This deficiency will generate an NCMR, the disposition of the NCMR will require the valve to be inspected for damage. If any damage is found it will be repaired in accordance with recommended procedure.

To assure that the limit switch setting remains within a safe range, all M.O. valves will be inspected and adjusted in accordance with section 8.1.8 of CPS operating Procedure 8451.01 Rev. 4.

* All thrust values for Posi-Seal Valves are given in in.-lbs. torque.

DLL/srb

cc: J. F. Hampton, V-928
H. Millwood, V-130D
A. D. Nayakwadi, V-928
B. K. Shete, V-928

SUMMARY OF
SET 5 ATTACHMENTS

- ATTACHMENT 5 - NRC's PVORT Special Concern of Component 1E22-F010 and Illinois Power's Response

- ATTACHMENT 5A - Engineer Review and Evaluation Request of Condition Report 1-85-11-003 (DGT-86-092).

- ATTACHMENT 5B - GE Final Report, "Failure Analysis, F010 and F011 valves Clinton Project" (DRF E22-00070).

- ATTACHMENT 5C - GE Field Deviation Disposition Requests for F010 and F011 (FDDR LH1-5504, Rev. 0 thru 1 and FDDR LH1-5503, Rev. 0 thru 3).

ATTACHMENT 5
ILLINOIS POWER COMPANY
CLINTON POWER STATION

SUBJECT: PVORT Special Concern - Component 1E22-F010, Draft SSER Table 3.10.2.2

The NRC PVORT Audit-2 Concern states:

The following concerns apply to 1E22-F010, F011, and F023:

a) Provide a schedule addressing the resolution of the antirotation problem, stem failure, and the disc rotating of the shaft.

b) Provide final reports addressing the cause of failure and what corrective action will be taken for these valves and similar valves.

c) CR 1-85-10-040 indicates that stem clamp collar was found bound on the stem for Valve 1E22-F011. What was the root cause of this problem, what corrective action was taken for this valve, and other similar valves.

Illinois Power's response is as follows:

a) The antirotational problem will be resolved by 10CFR21-85-05. The corrective action associated with this issue is scheduled for completion by March 30, 1986.

The stem failure problem will be resolved by 10CFR21-85-18. The corrective action associated with this issue is scheduled for completion by March 30, 1986.

The disc rotating off the shaft problem of Component 1E22-F011 is still under engineering evaluation. IP Startup's preliminary conslusion is that there is no generic corrective action because the above problem was the result of system test vibrations and considered to be a one time occurrence (see Attachment 5A, Page 6 of 6).

b) Attachment 5B is the final GE Report DRF E22-00070, "Failure Analysis, F010 and F011 valves, Clinton Project". The Generic Corrective Action will be addressed by 10CFR21-85-05 and 10CFR21-85-18. The Corrective Action for Valves 1E22-F010 and 1E22-F011 are identified and FDDR LH1-5504, Rev. 0 thru 1 and FDDR LH1-5503, Rev. 0 thru 3, respectively (see Attachment 5C).

c) The Root Cause of CR 1-85-10-040 was determined to be the antirotational problem. As stated above, the antirotational problem will be resolved by 10CFR21-85-05.

Walker

To: J.F. Hampton, V-920

From: D.G. Tucker, V-130D

Date: February 11, 1986

Subject: Engineer Review and Evaluation of Condition Report 1-85-11-003

It is requested that NSED review and evaluate the vibration which occurred during the HPCS RST to RST run in support of PTP-DG-03, by indicating if;

1) The vibration which occurred was within acceptable limits and;

2) indicate if this is an isolated case and not a generic problem.

It is requested this review and evaluation be completed by February 24, 1986. If there are any questions, contact S. A. Gregg at extension 3690.

DGT/HWM/jaw
DCT 86-092
MEMO20

Attachment

cc: J.H. Greene, V-130A
J.A. Miller, V-130D
S.A. Gregg, V-130D
M. Mull, V-920

2) Conflict between design & commitment documents: M05-1035, sheets 1,2, & 3 calls for rupture disks 1DG12MA, 1DG2MB, & 1DG12MC to be set @ 4.5 psi; FSAR Q&R 040.66 calls for "0.5 psia lower than manufacturer's pressure limit "which is 5" H20 per K2801-0076A & K2861-001A

Remedial Corrective Action: Initiated NCMR 1-0921.
Generic Corrective Action: NCMR resolved the concerns of this condition report in its entirety.
Approved.

1-85-08-033, Rev. 0
Significance Level: A minor condition which requires a resolution within 30 calendar days.
Subject: MWR B18882 was initiated to perform the work required by NCMR 1-1192. NCMR 1-1192 was marked as quality related. MWR B18882 was marked safety class 4 and QA review required was marked "N", therefore, no QA review of this MWR was performed. The work was then performed without a QCIP or QCIR to verify the work was performed to NCMR 1-1192.
Remedial Corrective Action: None required. The work was performed to the criteria of NCMR 1-1192.
Generic Corrective Action: M1 procedure was implemented and all future MWRs will be dispositioned by NSED personnel trained on the M1 procedure.
Approved.

1-85-09-020, Rev. 0
Significance Level: A minor condition which requires a resolution within 30 calendar days.
Subject: The actuator air fittings for Valve 1C11 F403A is in direct contact with Line 1RE32B-3" Spool 1RE-9-7. The actuator "Air in, Air Out" Fittings are also open, leaving the actuator internals exposed to contamination.
Remedial Corrective Action: Startup initiated a letter to NSED requesting an engineering evaluation of the construction error. Startup will implement any actions required by NSED's evaluation, if required.
Generic Corrective Action: The Remedial Corrective Action is considered adequate. No Generic Corrective Action is required.
D. Majeres (QA) pointed out that the second paragraph on the engineering evaluation was not addressed on the attached Reactor Controls' NCR as implied. Since two engineers signed this engineering evaluation, the committee agreed to accept it as is. This condition report was approved with this comment.

1-85-11-003, Rev. 0
Significance Level: A major condition which requires a resolution within 10 working days.

3/7/86

Subject: During HPCS RST to RST Run, in support of PTP-DG-03, significant flow rate/discharge pressure changes occurred (flow decreased from rated 5600 GPM to 3500 GPM in approximately 40 seconds following HPCS initiation) and vibration/noise levels increased at the test return line orifice E22-D004. Upon disassembly of orifice and spool, (MWR B17187) a large piece of stainless steel was found in the piping downstream of the orifice plate and the orifice plate was damaged. It appears additional foreign material may be located in upstream piping. Source of material is unknown at this time.
Remedial and Generic Corrective Action: Initiated NCMR 1-1957.
Returned to Startup for the following two reasons:
1) Documentation needed that vibration which occurred was within acceptable limits; and
2) Provide reasons why this is an isolated case and not a generic problem.

1-85-11-037, Rev. 0
Significance Level: A minor condition which requires a resolution within 30 calendar days.
Subject: ECNs 6496 and 6469 were written in conflict.
Remedial and Generic Corrective Action: There is no conflict between these two ECNs. No corrective action is required.
Approved.

1-85-11-086, Rev. 0
Significance Level: A minor condition which requires a resolution within 30 calendar days.
Subject: The discharge line 1HP14B-1 from relief valve 1E22-F035 is bent.
Remedial and Generic Corrective Action: Initiated NCMR 1-2024.
Approved.

1-85-11-106, Rev. 0
Significance Level: A major condition which requires a resolution within 30 calendar days.
Subject: While troubleshooting per XTP-SP-02, it was discovered that in NSPS Division III when an analog trip module (ATM) was selected in either the monitor or monitor compare mode, all the ATMs in the selected card file sequentially and intermittently tripped and reset. Further troubleshooting determined that PROM(s) has failed on the Division III Data Acquisition/Display Controller (DADC) board.
Remedial and Generic Corrective Action: Initiated NCMR 1-2041.
Approved with the comment that NCMR 1-2041 be reviewed by the committee prior to its closure. (Action item 85-235-1)

. Mobilizing E. Corrigan

ATTACHMENT 5A
PAGE ~~8~~ 4 OF 6

CPS CONDITION REPORT

CLASS CODE: SNQN
ILLINOIS POWER COMPANY
CPS NO. 1016.01F001 (REV.6)

C.R. No.	REV	SEVERITY LEVEL	TIME	SHEET __ OF __
1-85-11-003	0	B2 11/1/85	1145	

1. ORIGINATOR	DEPARTMENT	DATE	SYSTEM	LOCATION
KEVIN MOORE	I.PSU	11/1/85	HP	737' F.B.

EVENT DATE 10-31-85 TIME 2100 STATUS 6 POWER 0 %

2. REQUIREMENTS REFERENCE (TITLE, DOCUMENT No., REV, DATE, SECTION, etc.):
- ☐ TECHNICAL SPECIFICATION ________
- ☐ 10CFR ____ SECTION ________
- ☐ PROCEDURE No. ________ PARA ________
- ☐ RAD WORK PERMIT No. ________
- ☒ NONE ________
- ☐ OTHER ________

3. DESCRIPTION OF CONDITION

DURING HPCS RST TO RST RUN, IN SUPPORT OF PTP-DS-03, SIGNIFICANT FLOW RATE /DISCHARGE PRESSURE CHANGES occurred (Flow decreased from RATED 5000 GPM TO 3900 GPM IN APPROXIMATELY 40 SECONDS FOLLOWING HPCS INITIATION) AND VIBRATION/NOISE LEVELS INCREASED AT THE TEST RETURN LINE ORIFICE FSS-D004. UPON DISASSEMBLY OF ORIFICE AND SPOOL, (MWR E17187) A LARGE PIECE OF STAINLESS STEEL WAS FOUND IN THE PIPING DOWNSTREAM OF THE ORIFICE PLATE AND THE ORIFICE PLATE WAS DAMAGED. IT APPEARS ADDITIONAL FOREIGN MATERIAL MAY BE LOCATED [illegible] UPSTREAM [illegible] SOURCE OF MATERIAL UNKNOWN AT THIS TIME.

4. IMMEDIATE ACTION TAKEN

PL # HPA0479

SECURED TESTING; WROTE CONDITION REPORT.

5. MATERIAL/PART/COMPONENT NONCONFORMANCE

☒ YES ☐ NO IF YES WTG 11/1/85

SAFETY RELATED	☒	FIRE PROTECTION RELATED	☐
NON-SAFETY RELATED	☐	ASME	☐
AUG-D/ RADWASTE	☐	NOT KNOWN	☐
		NOT APPLICABLE	☐

6. POTENTIAL 10CFR21/50.55(e) ☐ YES ☒ NO REVIEWED BY/DATE JHGreen 11-1-85

POWER PLANT MANAGER

7. INVESTIGATION/NOTIFICATION ASSIGNMENTS NOTIFY ☐ NRC ☐ STATE ☐ OTHER ☒ N/A

INVESTIGATION ASSIGNED TO IPSU (DEPT./ORGANIZATION) ASSIGNED BY DAS / 11/2/85 (DATE)

LER EVALUATION

8. LER NO. ☐☐-☐☐☐-☐☐ LER DUE BY: N/A

INVESTIGATING DEPARTMENT

9. REMEDIAL ACTION, INVESTIGATION RESULTS AND CORRECTIVE ACTION

Initiated NCMR 1-1957 DAS 11/2/85

JHGreen 12/12/85

JHGreen 11/27/85

RESPONSIBLE DEPT. [signature] 11/26/85
SIGNATURE/DATE

QA-FRG REVIEW

10. QA REVIEW
SIGNATURE/DATE [signature] 12/12/85

11. FRG REVIEW
SIGNATURE/DATE

12. CLOSE OUT:

____ / ____
SIGNATURE/DATE

HP-85-4474

ATTACHMENT 5A
PAGE 5 OF 6

CLASS CODE: SNQN
ILLINOIS POWER COMPANY
CPS NO. 1016.02F001 (REV. 3)

CPS NONCONFORMING MATERIAL REPORT

SEVERITY LEVEL B2 1145 TIME

2. NCMR NO. 1-1957

SHEET 1 OF ___

1. ORIGINATOR	DEPARTMENT	DATE	SYSTEM	BLDG/ELEV. / ROW/COL
D.A. Schweickert	Plt. Sup. Serv.	11/1/85	HP	F.B. 737'

ITEM IDENTIFICATION/NOMENCLATURE
See attached CR 1-85-11-003

FIRE PROTECTION / AUG Q/RADWASTE / SAFETY-RELATED
☐ NON QUALITY RELATED
☒ QUALITY RELATED
☐ OTHER ___
☐ ASME SEC ___

3. REQUIREMENTS REFERENCE (TITLE, DOCUMENT NO. REV., PARA., SECT., ETC.)
None N/A

PURCHASE ORDER/DATE
N/A

4. DESCRIPTION OF NONCONFORMANCE
See block 3 of CR 1-85-11-003

5. POTENTIAL 10CFR 21/50.55(e) ☐ YES ☒ NO

INVESTIGATION ASSIGNED TO IPSU/JHG (DEPARTMENT / ORGANIZATION) [signature] 11/2/85 (CQCD / DATE)

6. STATUS (TAGS/STICKERS ATTACHED)
☐ QC HOLD
☐ NA
☒ NONCONFORMANCE
☒ NO. OF TAGS / 1 INITIAL/DATE DES 11/2/85

7. DISPOSITION
☐ USE AS-IS ☐ REPAIR ☐ REWORK ☐ REJECT ☐ ENGINEERING EVALUATION ATTACHED
☐ DOCUMENT REVISION REQUIRED ☐ OTHERS
NSED

8. REMEDIAL CORRECTIVE ACTION/INVESTIGATION RESULTS
Tagout 85-4485 is presently hung on HPCS system under shift supervisor control until it has been determined that HPCS pump can safely be operated. Robert A. Price 11-2-85

9. GENERIC CORRECTIVE ACTION

10. RESPONSIBLE ORGANIZATION | 11. QUALITY ASSURANCE | 12. ANI/ANII CONCURRENCE

13. DISPOSITION IMPLEMENTATION
IMPLEMENTING DOCUMENTS

QC VERIFICATION DOCUMENTS

QC SIGNATURE / DATE

14. RESPONSIBLE ORGANIZATION | 15. QUALITY ASSURANCE | 16. ANI/ANII CONCURRENCE

17. FRG CLOSEOUT REVIEW

18. CQCD CLOSEOUT

INVESTIGATION RESULTS

Investigation has determined that prior to this Condition Report, excessive vibration was experienced in the HP piping as a result of flow orifice 1E22-D004 being located too close to valve 1E22-F011. FECN 60336 permanently relocated this flow orifice, such that the vibration levels were restored to acceptable limits. Shortly thereafter, significant flow rate/discharge pressure changes and metallic noises were experienced in the HP piping during the HPCS RCIC Storage Tank (RST) to RST run, in support of PTP-DG/DO-03. Flow orifice 1E22-D004 was removed (MWR 17187) and one half of a valve stem retaining ring was found. The suspect source of the retaining ring were valves 1E22-F010 or 1E22-F011. Valve 1E22-F010 was disassembled (MWR B13246) and the valve stem was discovered fractured. Valve 1E22-F011 was disassembled (MWR B17188) and was found to be missing two halves of the retaining ring. The stem disc nut on 1E22-F011 had loosened, apparently due to excessive vibration, allowing the retaining rings to be introduced into the system as loose parts. The other half of the retaining ring was finally retrieved, from inside the RCIC Storage Tank, using Tool Box Skills.

REMEDIAL CORRECTIVE ACTION

The Engineering Evaluation for NCMR 01-1957 determined a new Orifice Plate 1E22-D004 is to be fabricated and installed via MWR 17189. The fractured valve stem on 1E22-F010 is to be replaced and the valve restored to an acceptable configuration via FDDR LH1-5504 per the Engineering Evaluation of NCMR 01-1960. Valve 1E22-F011 will be restored to an acceptable configuration per FDDR LH1-5503 and reinstalled per MWR 17188.

GENERIC CORRECTIVE ACTION

The 1E22-F010 stem failure is being addressed generically via a 10CFR Part 21 Report (21-85-18). There is no Generic Corrective Action for valve 1E22-F011 because the vibration problem is considered a one time occurrence.

NOTE

Valves 1E22-F010, 1E22-F011 and 1E22-F023 are the only active valves where the disc nut is attached by means of staking.

ATTACHMENT 5B

GENERAL ELECTRIC

NUCLEAR ENERGY PROJECTS DIVISION
GENERAL ELECTRIC COMPANY • CLINTON POWER STATION • P.O. BOX 675 • CLINTON, ILLINOIS 61727 • (217) 935-5344

December 5, 1985 GSI-625-85

G. Coleman V270F
NSED GE Coordinator
Illinois Power Company
Clinton Power Station
Clinton, IL

Subject: E22-F010 & F011 Failure Analysis

Reference: J. R. Logan Letter GSI-622-85 to G. Coleman

Attached is a clearer copy of the subject report. A Nefax copy was transmitted on the reference letter.

If you have any questions, please contact this office.

JRLogan
J. R. Logan
Resident Site Manager
Clinton Power Station

JRL:jmt

cc: H. R. Lane
F. C. Edler
F. A. Spangenberg
L. H. Larson