

Workorder: 02-000550-000
Status: I
Entry Date: 01/18/2002 15:24
Planner/Supv: JOHN THOMAS
Requested By: BRENDA F. SIMRIL 843-8515

***** SUPERVISOR *****

PER Level Rev Level 00
Identified By LINE ORGANIZATION
Self Revealing Y

Problem Description As part of the extent of condition for PER
00-007928-000, the following issue has been identified.
While verifying specified Appendix R manual actions
and timelines associated with mitigation of spurious
operation of valves 1,2-FCV-63-072 & -073, it has been
determined that all technical issues were not
considered. Specifically, manual actions specified for
closure of valve 1,2-FCV-63-001 did not alert the
operator to the potential for requiring local manual
operation of the valve. Additionally, emergency lights
have not been provided for local operation. Follow up
walkdowns have been performed and accessibility of
1,2-FCV-63-1 has been confirmed.

Plt Process Equip Y
Potential Oper Issue Y
Potential Reportable Y
Potential Degrad/Noncon(91-18) Y

ASME N
Systems Affected N/A
Systems Affected
Systems Affected
Systems Affected
Units Affected 1&2
Recommendation Process PER
No action, Justify
If Process,PER Level D
If Utilize ACP, No
Immed Action Taken Performed walkdowns of 1,2-FCV-63-1, -2 to determine
accessability for manual operation.

Provided guidance to operations to revise AOP-N.01 to
respond to spurious operation of 1,2 FCV-063-072, -73
by manually closing 1,2-FCV-74-3, -21 as appropriate.

BBB-7
AY

Specified appropriate equipment to ensure manual actions can be completed within required time frame.

Contacted operations to re-evaluate minimum operator staffing requirements for responding to an Appendix R fire.

Revised AOP-N.01 to allow manual closure of FCV-63-1 for areas where RHR valves are inaccessible.

Recommended Resp Org ENG/MECH
Coordinated With John Thomas
Init Sup-First Last John Thomas
Init Sup Phone 8224
Init Department ENG/MECH
Init Sup Review Date 01/18/2002

***** LEVEL D INFORMATION *****

Lvl D Causing Org
Lvl D Causing Crew
Human Perf Proc Code
Apparent Cause
Lvl D Process/Proced
Hardware Disposition
Technical Justify
Init Supv-First Last
Init Supv Phone
Init Sup Review Date

***** OPS *****

Functional Eval (FE) Y
FE Due Date 01/22/2002
Affect Operability
If Yes,Units/Actions
Offsite OP Review Y
Op Review BFN N
Op Review BLN N
Op Review SQN N
Op Review WBN Y
Reportable Y

If Yes, List Basis It was determined that sufficient lighting did not exist to provide for local, manual operation of FCV-63-1 on Unit 1 or Unit 2. This condition was reported in accordance with License Condition 2.H for Unit 1 and 2 operating license to the Region II Director.

Ops SRO/STA-Fst Last Toney Whitten
Ops SRO/STA Rev Date 01/18/2002
***** FE *****

Functional Maint N
Potential Degrad/Noncon(91-18) Y

FE/Eval Due Date

Initial Evaluation A review of the condition identified revealed that this condition is in non-compliance with SQN's current licensing basis for maintaining Appendix R lighting and is therefore, reportable.

91-18 Degrad Nonconf Y

Functional/Eval Basis Actions associated with FOR 3.7.14.a taken to provide alternate lighting. .

AOP-N.01 revised via the 50.59 process, therefore, functional evaluation not required per SPP3.1.

Immed/Comp Measures Y

List Action/Measures Notified NRC of condition within required 24 hours.

Revised procedure AOP-N.01 to manually/locally close 1,2-FCV-74-3 and -21 to mitigate the spurious opening of 1,2-FCV-63-72, -73 and subsequent draining of RWST into containment.

Provided tooling to assist operator in manually closing isolation valves.

Issued standing order to require use of hand held lighting when manually closing 1,2-FCV-3, and -21 to mitigate an Appendix R fire.

Engineer John Thomas

Date 02/11/2002

Supervisor John Thomas

Date 02/11/2002

OPS SRO/STA-Fst Last

OPS SRO/STA Rev Date

***** MRC *****

Process PER Level C

Interim Action Req'd N

If YES, Specify

RCA Required N

Site Qual Conc/Ver N

Assigned Resp Org ENG/MECH
CA Develop Due Date 02/20/2002
MRC Directions
MRC CAP Review N
MRC-First Last John Hamilton
MRC Review Date 01/22/2002

***** Resp Org *****

CA Develop Due Date 02/20/2002
Section ENG/MECH
POC-First Last Brenda Simril
POC Phone 8515
Reactivity Mgt Issue N
A/B-LER N
LER No.
Control of NonConfor N
If Yes, Scope
Hardware Disposition
Disposition RIM/EDMS
Offsite Generic Rev Y
Generic Rev BFN
Generic Rev BLN
Generic Rev Corp
Generic Rev SQN
Generic Rev WBN Y
Process/Procedures

***** CAUSE DATA *****

Apparent Cause Engineering failed to identify design requirements for qualified lighting to perform manual actions to mitigate a fire in accordance with Appendix R.

Root Cause

Causing Org ENG/ELECT
Causing Crew
Human Perf Proc Code
HP Perf Second Code
Prev/Similar Event N/A
Specify Search Basis
Extent of Condition

***** PER HUMAN PERF *****

***** PER CA/RC ITEMS *****

1 Action Item Issue design change documentation to rewire the control circuit for FCV-63-72 and -73 such that spurious operation of the valves from an Appendix R fire will not occur.

- 1 Action Type CORRECTIVE ACTION
- 1 Assigned Org ENG/ELECT
- 1 CA Due Date 03/30/2002
- 1 AO Concur-Fst Last
- 1 AO POC Fst Last RON GLADNEY
- 1 CA Performed
- 1 Date Completed
- 2 Action Item Verify implementation of DCN for Unit 1
- 2 Action Type CORRECTIVE ACTION
- 2 Assigned Org ENG/MECH
- 2 CA Due Date 05/30/2003
- 2 AO Concur-Fst Last JOHN THOMAS
- 2 AO POC-Fst Last BRENDA SIMRIL
- 2 CA Performed
- 2 Date Completed
- 3 Action Item Verify implementation of DCN for unit 2
- 3 Action Type CORRECTIVE ACTION
- 3 Assigned Org ENG/MECH
- 3 CA Due Date 05/30/2002
- 3 AO Concur-Fst Last JOHN THOMAS
- 3 AO POC Fst Last BRENDA SIMRIL
- 3 CA Performed
- 3 Date Completed

***** CLOSURE COMMENTS FROM CA *****
***** CAP CONCUR *****

PER Completion Date 05/30/2003
Prep-First Last John Thomas
Preparer Date 02/20/2002
Telephone No 8224
(C) Supv-First Last John Thomas
(C) Supv Ext 8224
(C) Supv Date 02/20/2002
(B) DptMgr-First Last
(B) DptMgr Date
MRC Reqd N
MRC Concurrence
Reason for N
MRC-First Last
MRC Date
(A) SiteSr-Fst Last
(A) SiteSr Date
(A) PitMgr-Fst Lst
(A) PitMgr Date

React Eng-Fst Lst
React Eng Date
Site Qual Conc Reqd N
Site Qual Concur
Reason for N
Site Qual First Last
Site Qual Date

***** VERIFICATION *****

Final Rev Level
Tags Rem-First Last
Tags Date
RO Verify Comp
RO Verify Date
ANI/ANII Required N
ANI/ANII Concurrence
Reason for N
ANI/ANII-First Last
ANI/ANII Date
Site Qual Concur
Reason for N
Site Qual First Last
Site Qual Date
RO Supv Clos-Fst Lst
Closure Date

***** EXTENSIONS *****

***** REVISIONS *****

***** GENERIC REVIEWS *****

BFN Resp Org
BFN Due Date
BFN Gen Rev Results
BFN Review-Fst Lst
BFN Review Date
BLN Resp Org
BLN Due Date
BLN Gen Rev Results
BLN Review-Fst Lst
BLN Review Date
CORP Resp Org
CORP Due Date
CORP Gen Rev Result

CORP Review-Fst Lst

CORP Review Date
SQN Resp Org
SQN Due Date
SQN Gen Rev Results
SQN Review-Fst Lst
SQN Review Date
WBN Resp Org ENG/MECH
WBN Due Date 02/13/2002
WBN Gen Rev Results Copy to CR Allen 02/13/02 for information only review.
WBN Review-Fst Lst TERESA WILSON
WBN Review Date 02/13/2002

***** OPERABILITY REVIEWS *****

BFN Notified-Fst Lst
BFN Notified Date
BFN Op Rev Results
BFN Review-Fst Lst
BFN Review Date
SQN Notified-Fst Lst
SQN Notified Date
SQN Op Rev Results
SQN Review-Fst Lst
SQN Review Date
WBN Notified-Fst Lst DUNCAN BENNETT
WBN Notified Date 01/25/2002
WBN Op Rev Results A review of WBN AOI-30.2 did not identify any local
manual actions taken at the valve for 1-FCV-63-1.
Therefor this PER is not applicable to WBN.
WBN Review-Fst Lst DUNCAN BENNETT
WBN Review Date 01/25/2002

***** TRENDS *****

Program Code FP
Program Code
Program Code
INPO Code FP1
INPO Code
NRC Code
NRC Code
Category PROCESS
Short Term Code
Impact 4.0
Behavior Code

Org / Prog Code
GEMS
Other
CAUSE CODES

Total records selected: 1

*** END OF REPORT ***