

A-160

GPC II-160

DOCKETED  
USNRC

# RECORD COPY

'95 SEP -8 P4:04

DEFICIENCY CARD # 1-88-3083

OPERATIONS SECRETARY  
DOCKETING SERVICE  
BRANCH

NORMALLY COMPLETED WITHIN 1 HOUR BY INITIATOR

NORMALLY COMPLETED WITHIN 1 DAY BY SS

NORMALLY COMPLETED IN 1 DAY BY NSAC

1. Unit 1  Unit 2 ( ) Common ( )

2. Deficiency Description:

What is the deficiency? ITSH19117,  
ITSH19118 & ITSH19119  
WERE FOUND OUT OF SPEC.  
WHILE CALIBRATING.

Additional sheets attached? Yes \_\_\_ No

What is the location of the deficiency?  
TRAIN B DIESEL

What is affected by the deficiency? TEMP.  
SWITCHES ITSH19117,  
ITSH19118 & ITSH19119

How was the deficiency discovered?  
DURING PERFORMANCE OF  
P.M. 18806910

Event time 1300 Date 10-20-88

Discovery time 1300 Date 10-20-88

Discovered by: Walter R. Prunier

Work # 4075 Dept. ITC

Who was the deficiency reported to?

3. Name of SS JOHN BOWLES

Time 1750 Date 10-20-88

SEE BACK FOR INSTRUCTIONS

4. Plant Mode/Condition G/Atmosphere?

Pass and Temp.

Is immediate notification req'd? Yes \_\_\_ No

If yes, 1 Hr, 4 Hr, or 24 Hr N/A

Reported: Date N/A Time N/A

5. Tech. Spec. required action taken?

Yes \_\_\_ No  N/A \_\_\_

List applicable Tech. Spec. section(s)

NONE

Summarize compensatory action taken:

Temperature switch was recalibrated  
to within spec.

LCO Initiated: No  Yes \_\_\_ Number N/A

Type: Info LCO N/A Fire Prot. \_\_\_

MWD Initiated: Yes \_\_\_ No

MWO # N/A

Sign of SS [Signature]

Time 1755 Date 10-20-88

Received by NSAC Date 10-21-88

SOR Req'd: Yes \_\_\_ No

If yes, SOR #: NA

If no, explain why it is not significant and forward to the responsible department for disposition:

Non significant deficiency, temperature  
switch recalibrated within acceptable  
limits.

Reviewer: Herb Beacher Date: 10-21-88

Responsible Dept: Maintenance

706093A

NUCLEAR REGULATORY COMMISSION

Docket No. 50424 & 425-PLA-3 EXHIBIT NO. II-160

In the matter of St. John/Vogel

Staff  Applicant  Intervenor  Other

Identified  Received  Rejected Reporter NLW

Date 8-23-95 Witness DRINEY

9509120312 950823  
PDR ADOCK 05000424  
G PDR

NORMALLY COMPLETED IN ONE WEEK

7. Disposition:

Recalibrated during PM 18806910.

Implementing Method / Document

MWO # PM 18806910

RER # N/A

Procedure Revision # N/A

Other (specify) N/A

Functional Trend: Dept: 21 Code: 2b

If code 9 enter Procedure No. N/A

DATE 10/29/88 DEPARTMENT HEAD M. J. Williams

B. Initiator notified of disposition: Yes  No

If no send copy of DC to initiator. Copy sent

Supv. Signature Byron J. Williams Date 11-4-88

2. Deficiency (cont.) \_\_\_\_\_

### STOP DEFICIENCIES

### OBSERVATION CHECK LIST

DECIDE	REPORT
STOP	ACT
OBSERVE	

Deficiencies are noncompliances with Quality requirements and are in three major areas (Mark deficiencies):

#### PEOPLE

- Safety, Quality, and Quantity priorities observed
- Radiological practices used for ALARA
- Administrative Controls complied with
- Fitness for duty of personnel observed

#### PROCEDURES, DOCUMENTS, AND MANUALS

- Technically correct, Adequate for intended function
- Correctly reflect requirements of Tech Specs, FSAR, 10CFR, Codes, and other regulations

#### EQUIPMENT

- System lineup correct for plant condition
- Equipment within Tech. Spec. requirements
- Response/parameters normal during operation, maintenance or testing
- Unplanned system/component actuations do not occur
- Planned system/component actuations occur as expected
- Material and equipment meets specifications and procurement requirements

Causes of deficiencies are in seven major categories (Mark preliminary cause):

- Human factors - communications, man-machine interfaces, work organization, environment
- Procedures - not used, error in following, incorrect, inadequate
- Management - Policy/admin. control inadequate, audits/evaluations inadequate, corr. action inadequate
- Training - No training, training method less than adequate
- Design - Poor specifications, poor material selection, commitments not addressed, poor documentation
- Manufacturing/installation - fabrication, craftsmanship, material usage, component failure
- External Man-made cause, natural cause

188-3083

# RECORD COPY

DEFICIENCY CARD # 1-88-3016

NORMS

NORMALLY COMPLETED WITHIN 1 HOUR BY INITIATOR

1. Unit 1 (  ) Unit 2 ( ) Common ( )

2. Deficiency Description:

What is the deficiency? DURING MAINTENANCE OF PM (18806902) ON DIESEL GENERATOR A, TEMP SWITCHES 1T5A-1910 AND 1T5A-1911 WERE FOUND OUT OF CALIBRATION.

Additional sheets attached? Yes \_\_\_ No 

What is the location of the deficiency?

DIESEL GENERATOR A1What is affected by the deficiency? GROUNDING

How was the deficiency discovered?

CALIBRATION TESTINGEvent time 0650 Date 10-18-88Discovery time 0650 Date 10-18-88Discovered by? RICK BLANKSWork # 4075 Dept. IFC

Who was the deficiency reported to?

3. Name of SS SM & BrownTime 0650 Date 10/18/88

SEE BACK FOR INSTRUCTIONS

4. Plant Mode/Condition MODE BIs immediate notification req'd? Yes \_\_\_ No If yes, 1 Hr, 4 Hr, or 24 Hr N/AReported: Date N/A Time N/A

5. Tech. Spec. required action taken?

Yes \_\_\_ No \_\_\_ N/A 

List applicable Tech. Spec. section(s)

N/A

Summarize compensatory action taken:

Temp switches were SAT when P.M. was performedLCO initiated: No  Yes \_\_\_ Number \_\_\_

Type: Info \_\_\_ LCO \_\_\_ Fire Prot. \_\_\_

MWO initiated: Yes \_\_\_ No MWO #: N/ASign of SS SM & BrownTime 0650 Date 10/18/886. Received by NSAC Date 10/19/88SOR Req'd: Yes \_\_\_ No If yes, SOR #: NA

If no, explain why it is not significant and forward to the responsible department for disposition:

NON SIGNIFICANT DEFICIENCY / FAILURE  
TEMP SWITCH RECALIBRATED WITHIN TOLERANCE.

Reviewer: H.L. BERCHER Date: 10-19-88Responsible Dept: ENGR. SUPPORT

NORMALLY COMPLETED WITHIN 1 DAY BY SS

NORMALLY COMPLETED IN 1 DAY BY NSAC



1. Unit 1 (✓) Unit 2 ( ) Common ( )

2. Deficiency Description:

What is the deficiency? ITSH19110 & ITSH19111 were found out of tolerance during performance of MWO# 18807746, and could not be calibrated before switch's had to be re-installed per operations

Additional sheets attached? Yes  No

What is the location of the deficiency? DG 2A

What is affected by the deficiency? ITSH19110 & ITSH19111

How was the deficiency discovered? MWO# 18807746

Event time 1400 Date 11-3-88

Discovery time 1400 Date 11-3-88

Discovered by A. WORMAN

Work # 4075 Dept. IFC

Who was the deficiency reported to?

3. Name of SS C.L. LADD

Time 1147 Date 11-3-88

4. Plant Mode/Condition Mode 6

Is this deficiency a notification requirement? Yes  No

If yes, 1 Hr, 4 Hr, or 24 Hr N/A

Reported Date 11-3-88 Time 1147

5. Tech. Spec. required action taken?

Yes  No  N/A

List applicable Tech. Spec. section(s)

3.8.1.1 & 3.8.1.2

Summary of compensatory action taken

At an 11:47 AM on 11/3/88, the switches are function and setpoint are within tolerance.

LOO indicated: No  Yes  Number 1

Type: Info  LCO  Fire Prot

MWO indicated: Yes  No

MWO #: N/A

Sign of SS A.W.

Time 1151 Date 11-5-88

6. Received by NSAC Date 11-5-88

SOR Req'd: Yes  No

If yes, SOR #:

If no, explain why it is not significant and forward to the responsible department for disposition:

NORMALLY COMPLETED WITHIN 1 HOUR BY BR/ATOR

NORMALLY COMPLETED WITHIN 1 DAY BY NSAC

NORMALLY COMPLETED IN 1 DAY BY NSAC

NORMALLY COMPLETED WITHIN 1 HOUR BY BRIGADIER

3. Unit 1 () Unit 2 ( ) Common ( )

Deficiency Description:  
What is the deficiency? ITSH 19110 & ITSH 19111 were found out of normal tolerances during performance of MWO # 18807746, and could not be calibrated before switch's had to be re-installed per operations

Additional sheets attached? Yes  No   
What is the location of the deficiency? DG 2 A

What is affected by the deficiency? ITSH 19110 & ITSH 19111

How was the deficiency discovered? MWO # 18807746

Event time 1400 Date 11-3-88  
Discovery time 1400 Date 11-3-88  
Discovered by A. WORMAN  
Work # 4095 Dept. IFG  
Who was the deficiency reported to?  
3. Name of SS C.L. LADD  
Time 1147 Date 11-3-88

SEE BACK FOR INSTRUCTIONS

4. Plant Mode/Condition Mode 6  
Is incident notification required? Yes  No   
If yes, 1 Hr, 4 Hr, or 24 Hr N/A

Reported Date 11-3-88 Time 1147  
5. Tech. Spec. required action taken? Yes  No  N/A   
List applicable Tech. Spec. section(s) 3.8.1.1 & 3.8.5.2

Summarize compensatory action taken:  
switches are functioning and setpoint adjusted to normal condition

LCO initiated: No  Yes  Number           
Type: Info  LCO  Fire Prot   
MWO initiated: Yes  No   
MWO #: N/A  
Sign of SS [Signature]  
Time 1151 Date 11-5-88

6. Received by NSAC Date           
SOR Req'd: Yes  No   
If yes, SOR #:           
If no, explain why it is not significant and forward to the responsible department for disposition:

NORMALLY COMPLETED WITHIN 1 DAY BY SS

NORMALLY COMPLETED IN 1 DAY BY NSAC

# RECORD COPY

DEFICIENCY CARD # 1-88-3155

NORMALLY COMPLETED WITHIN 1 HOUR BY INITIATOR	1. Unit 1 ( <input checked="" type="checkbox"/> ) Unit 2 ( ) Common ( )	4. Plant Mode/Condition <u>Refueled</u>
	2. Deficiency Description: What is the deficiency? <u>IPSL 4903</u> <u>would not respond to calibration.</u>	Is immediate notification req'd? Yes ___ No <input checked="" type="checkbox"/>
		If yes, 1 Hr, 4 Hr, or 24 Hr <u>N/A</u>
		Reported: Date _____ Time _____
		5. Tech. Spec. required action taken? Yes <input checked="" type="checkbox"/> No ___ N/A ___
		List applicable Tech. Spec. section(s) <u>3.8.1.2</u>
		Summarize compensatory action taken: <u>D.C. written</u>
		<u>Up prev 1-89-673I</u>
		LCO initiated: No <input checked="" type="checkbox"/> Yes ___ Number _____
		Type: Info <input checked="" type="checkbox"/> LCO ___ Fire Prot. ___
	MWO initiated: Yes <input checked="" type="checkbox"/> No ___	
	MWO #: <u>1-88-07165</u>	
	Sign of SS <u>M.S. Brown</u>	
	Time <u>1102</u> Date <u>10/24/88</u>	
	6. Received by NSAC Date <u>10/25/88</u>	
	SOR Req'd: Yes ___ No <input checked="" type="checkbox"/>	
	If yes, SOR #: <u>N/A</u>	
	If no, explain why it is not significant and forward to the responsible department for disposition: <u>Plant operating within Tech Spec limits</u>	
	Reviewer: <u>D. Hudson</u> Date: <u>11/8/88</u>	
	Responsible Dept: <u>R.E. Lide</u>	

NORMALLY COMPLETED WITHIN 1 HOUR BY INITIATOR

NORMALLY COMPLETED WITHIN 1 DAY BY SS

NORMALLY COMPLETED BY 1 DAY BY NSAC

SEE BACK FOR INSTRUCTIONS

NORMALLY COMPLETED IN ONE WEEK

7. Disposition:

Rework - Replace pressure switch IPSL-4903. The switch was operating correctly as shown by correctly starting the engine during monthly runs. The switch did not meet setpoint requirements

Implementing Method / Document:

MWO # 18807465

RER # NA

Procedure Revision # N/A

Other (specify) NA

Functional Trend: Dept: 21 Code: 14

If code 9 b enter Procedure No. N/A

DATE 11/13/88 DEPARTMENT HEAD [Signature]

8. Initiator notified of disposition: Yes No

If no send copy of DC to initiator. [Signature]

Supv. Signature [Signature] Date 11-23-88

2. Deficiency (cont.)

706093A

STOP DEFICIENCIES

OBSERVATION CHECK LIST

DECIDE

REPORT

STOP

ACT

OBSERVE

Deficiencies are noncompliances with Quality requirements and are in three major areas (Mark deficiencies):

PEOPLE

- \_\_\_ Safety, Quality, and Quantity priorities observed
\_\_\_ Radiological practices used for ALARA
\_\_\_ Administrative Controls complied with
\_\_\_ Fitness for duty of personnel observed

PROCEDURES, DOCUMENTS, AND MANUALS

- \_\_\_ Technically correct, Adequate for intended function
\_\_\_ Correctly reflect requirements of Tech Specs, FSAR, 10CFR, Codes, and other regulations

EQUIPMENT

- \_\_\_ System lineup correct for plant condition
\_\_\_ Equipment within Tech. Spec. requirements
\_\_\_ Response/parameters normal during operation, maintenance or testing
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\_\_\_ Planned system/component actuations occur as expected
\_\_\_ Material and equipment meets specifications and procurement requirements

Causes of deficiencies are in seven major categories (Mark preliminary cause):

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\_\_\_ Procedures - not used, error in following, incorrect, inadequate
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\_\_\_ Training - No training, training method less than adequate
\_\_\_ Design - Poor specifications, poor material selection, commitments not addressed, poor documentation
\_\_\_ Manufacturing/Installation - fabrication, craftsmanship, material usage, component failure
\_\_\_ External Man-made cause, natural cause

# Memo—Long Form

DATE

FROM
TO
TO
TO

- |   |   |
|---|---|
| <input type="checkbox"/> NOTE AND FILE              | <input type="checkbox"/> PREPARE REPLY FOR MY SIGNATURE |
| <input type="checkbox"/> NOTE AND RETURN TO ME      | <input type="checkbox"/> TAKE APPROPRIATE ACTION        |
| <input type="checkbox"/> RETURN WITH MORE DETAILS   | <input type="checkbox"/> PER YOUR REQUEST               |
| <input type="checkbox"/> NOTE AND SEE ME ABOUT THIS | <input type="checkbox"/> SIGNATURE                      |
| <input type="checkbox"/> PLEASE ANSWER              | <input type="checkbox"/> FOR YOUR INFORMATION           |
| <input type="checkbox"/> FOR YOUR APPROVAL          | <input type="checkbox"/> INVESTIGATE AND REPORT         |

COMMENTS

DC 1-88-3155 IPSL-4903 (P3) Calibration

This pressure switch is used in the start logic of the pneumatic controls. The switch has been operating correctly. The engine would have tripped after 90 seconds if the P3 switch would not operate. The switch setpoint is much tighter than the input signal requires. The switch (IPSL-4903) would not operate within the tolerance of the setpoint document but did operate in the system as required.

SENSOR CALIBRATION HISTORY Pg. 2 of 2INSTRUMENT TAG NUMBER 1TSH-19119DIESEL GENERATOR 1BINSTRUMENT FUNCTION JACKET WATER HEADER OUTLET TEMPERATURE SWITCHMANUFACTURER CALCONMODEL NUMBER A-3500-W3TRIP SETPOINT 200°F INC.RESET SETPOINT 190°F DEC.

DOCUMENT IDENTIFICATION NUMBER, DATE OF CALIBRATION, AND AS FOUND AND AS LEFT VALUES	REASON FOR CALIBRATION. IF OTHER THAN ROUTINE CALIBRATION INTERVAL, DOCUMENT THE CIRCUMSTANCES SURROUNDING THE CALIBRATION (E.G., SENSOR BEHAVIOR, PROBLEMS ENCOUNTERED, REPAIR WORK ORDER, ROOT CAUSE FOR MALFUNCTION OR FAILURE, ETC.).
18806910 04/30/88 AF = 221.3°F AL = 202.3°F	PERFORMING PM-DURING 1Z1. SWITCH FOUND OUT OF SPEC. DC 1-88-3083
18807637 10/26/88 AF = INITIAL CAL AL = 201.5°F	MWU WRITTEN BECAUSE SWITCH WAS LEAKING. INITIAL REPLACEMENT WOULD NOT CALIBRATE SATISFACTORILY. SECOND REPLACEMENT SWITCH CALIBRATED SATISFACTORILY. DEFECTIVE SWITCHES DISPOSED OF. DC 1-88-3248
19000440 01/25/90 AF = 200°F AL = 200°F	MWU REQUEST SWITCH CALIBRATION TO SUPPORT PERFORMANCE OF MAINTENANCE PROCEDURE 28713-1 DURING 1Z2
19001511 3/23/90 AF = 188.4°F AL = 195.57/201.74	MWU REQUESTED SWITCH CALIBRATION VERIFICATION (REV. 2 ADDED SWITCH REPLACEMENT DUE TO SWITCH VENTING CONTINUOUSLY. MWU WRITTEN DURING INVESTIGATION OF DIESEL GENERATORS.

# SENSOR CALIBRATION HISTORY

INSTRUMENT TAG NUMBER 1PSL 4902

DIESEL GENERATOR 1A

INSTRUMENT FUNCTION SENSOR VENT PRESSURE SWITCH

MANUFACTURER CALCON

MODEL NUMBER B4400

TRIP SETPOINT 45PSI DEL

RESET SETPOINT 53PSI INC.

DOCUMENT IDENTIFICATION NUMBER, DATE OF CALIBRATION, AND AS FOUND AND AS LEFT VALUES	REASON FOR CALIBRATION. IF OTHER THAN ROUTINE CALIBRATION INTERVAL, DOCUMENT THE CIRCUMSTANCES SURROUNDING THE CALIBRATION (E.G., SENSOR BEHAVIOR, PROBLEMS ENCOUNTERED, REAS FOR WORK ORDER, ROOT CAUSE FOR MALFUNCTION OR FAILURE, ETC.).
18606015 04/6/86 AF = INITIA CAL. AL = 43.5 PSI	DEFECTIVE SWITCH REMOVED AND REPLACED WITH SWITCH THAT WAS MTR'D FROM UNIT 2. MTR 1-86-312 AND ODR T-1-86-1688
18807466 10/23/88 AF = 43 PSI AL = 45.5/44.5 PSI	MWO WRITTEN FOR SWITCH CALIBRATION VERIFICATION. SWITCH RESET OUT OF TOLERANCE AND DC 1-88-3379 WRITTEN. REPLACEMENT SWITCH CALIBRATED AND INSTALLED
19000069 01/03/90 AF = 44.6 PSI AL = 44.6 PSI	PERFORMING PM'S DURING 1R2
19001219 03/08/90 AF = AL =	MWO WRITTEN DUE TO SWITCH NOT RESETTING. NO SWITCH CALIBRATION PERFORMED. PROBLEM FOUND TO BE IN ASSOCIATED COMPONENTS.