SITE PROBLEM

REPORT TRANSMITTAL

DAVIS-BESSE-1

**** CLEARED ****A

TO: Change Control For Distribution

S. H. Klein - Quality Assurance

Central Engineering Files

T. G. Walcott - Task Engineer

J. P. Lower - Project Manager

FILE: 13-14-241

CONTRACT NO: 620-00 14

SPR 241

TITLE 720 LCS COMPONENT FAILURES

DATE: 8-15-77

STATUS CODE C

_____ L. C. Rogers - MET. ED.

_____ F. E. Faist - TOLEDO

_____ J. R. Bohart - Intl. Support

_____ J. L. Donnell - OFR

_____ B. A. Karrasch - Plant Integration

_____ A. M. Turner

CLOSED

Attached is one copy of Site Problem Report No. 241 which was processed on Contract 620-00 14. Future contracts have been reviewed for the potential of a similar problem. This problem ~~is~~/is not considered applicable to other contracts _____.

REMARKS: _____

NUCLEAR SERVICE SUPPORT ENGINEER

CLEARED

1 OF 14

7910040401

TELECOPY TO B.P.WILLIAMSON, NUCLEAR SERVICE (3 pages) 9/23/77 Clear 208-2081(8-76)

SITE PROBLEM REPORT

BABCOCK & WILCOX

CUSTOMER	ORIGINATOR	DATE	DOC. ID. CONT. NO.	SPR NO.	REV. NO.
Toledo Edison Company	R.J.Baker,Jr.	11/8/76	620-0014	241	0
VENDOR: Bailey Meter	P.A. NO.: 020 592 LJ		PART NO./TASK NO.: 21/030/003	GROUP NO.	SEQ. NO.
TITLE (MAX 30 CHARACTERS): ICS Component Failures			PROBLEM CONTACT: F. R. Faist		

PROBLEM IDENTIFICATION

DESCRIPTION OF PROBLEM:

While performing the initial module calibrations and open loop test for the ICS, numerous modules could not be calibrated. The attached list describes the ten (10) components requiring repair.

Req'd Resol. Date: N/A
Req'd Comp. Date: 12/15/76

STATUS-ACTION TO DATE, INCLUDING PERSONS CONTACTED:

P.S.S. contacted B&WCo - most of parts returned on 10/26/76, others to be returned week of 11/8/76. Frank Hannell contacted. B. Williamson also contacted. TECo I&C aware of problem.

FURTHER ACTION RECOMMENDED BY SITE PERSONNEL:

1. B. Williamson to obtain P. O. from B&W Purchasing ASAP and provide site with the number. Certificate of Conformance not required.
2. SPR to be cleared upon return of all modules.
3. P.S.S. to provide return of material dates.

RESOLUTION

RESOLUTION:

PA # 83-761094-00 has been forwarded to Purchasing Site to Clear this SPR upon receipt of all modules.

CLOSED

PREPARED BY	DATE	APPROVED BY	DATE
F.D Hannell	11/16/76	D.B Fiedler	12-6-76
REVIEWED BY: O'Connell	DATE: 12-2-76		

COST CATEGORY	FIELD CHANGE REQ	F.C.A. NO.	SIGNIF. DEFICIENCY
☐ NORM OTHER ☐	☐ YES NO ☒	04-	☐ YES NO ☒

COMPLETION

SITE COMPLETION REPORT:

All modules have been received on site and turned over to TECo.

DEVIATIONS: ☒ NONE SPR REV NO. ☐

DATE COMPLETED: 9/13/77

COMPLETED BY: D. L. Allison DATE: 9/13/77

F. R. Faist 9/13/77

SHEET 2 OF 14

SFS #241
CCS-0014
11/8/76

The following summarizes the components that have failed in the SCS ICS System:

Quantity

2 Pulser Modules
P/N 6625160A1, #1 & #2
#1 DB-133 ICS 5-3-8
Neither the K1 nor the K2 relays will de-energize
#2 DB-132 ICS 5-7-14
The K2 (positive) relay will not energize.
Note: Both bulbs are burned out.

3 Function Generators
P/N 6624665A1 #3 - #5
#3 DB-131 ICS 5-8-3
Output bias remains at -13.5 VDC and adjusting has no effect.
#4 DB-130 ICS 5-8-2
When placed in bench for calibration, the module loads down the input source.
#5 DB-134 ICS 5-7-13
The output bias stays at -13.7 VDC and the output bias pot has no effect.

3 Summer + Bias + Inverter
P/N 6623695A2 #6 - #8
#6 DB-138 ICS FW 5-1-13
With the input #3 gain set at 1.176 and an input #3 of +8.500 VDC, the output drifts 15 MV (continuously changing) - no tapping of the module required. Also, the input resistor for the bias seems to be out of tolerance (not at a gain of 2.0).
#7 DB-129 ICS 5-5-13
Module does not meet the 0.05% accuracy spec., i.e. with the output gain set at 0.5 and a BIAS/2 of -8.297 V, the Eout = +8.267.
#8 DB-128 ICS 5-4-13
With the output gain set at 4.998 (0.5) and a BIAS/2 of -8.291 V, the output is +8.273 VDC and a slight tap on the module changes the Eout to 5.035 Module does not meet the published spec of 0.5% accuracy and must have a defect causing the shift when tapped.

Description of Component Failures - continued:

Quantity

1 Summer + Prop + Integral
P/N 6624151A1C
(#2) DB-127 ICS 4-10-1
Inputs to the summer #1 and #2 have a gain of about 1.01. With a +10.000 VDC input the output is -10.097 VDC. This is outside the spec of 0.010 VDC accuracy for this module. Also, the integral sometimes runs with the integral switch off. The X1, X10 switch moves so hard, it was not moved for fear of damage.

1 Signal Monitor
P/N 6623819A1
(#1) DB-122 ICS 4-5-10
The K1 relay will not energize at setpoint, although the light works properly. The problem is suspected to be in the relay itself.

FRF:nlf

DS-138

PROBLEM REPORT

TO PROD SUPPORT

WARR. SEC. NO. 403

Toledo Division, Sheffield-Perkins

Dodge * Plymouth Dealer

From [illegible]

With the unit in main motor [illegible] the
the output drive [illegible]
no function of the module [illegible].

Also, the input resistor [illegible] has been out of
tolerance [illegible] of 0.1%.

[illegible] Heiffer
[illegible] 783
P.O. Box 6
Clinton, Ohio 4314[illegible]2
[illegible] PART NO. 2A2
[illegible] APPLICATION
[illegible] APPLICATION
[illegible] WARRANTY

[illegible] PART RETURNED
[illegible] DATE

[illegible] RECEIPT
[illegible] PRICE (WARRANTY)
[illegible] ACTION (NON WARRANTY)
[illegible] TIME IN SERVICE

CUSTOMER ATTITUDE
- ☐ MAJOR CONCERN
- ☒ CONCERNED
- ☐ UNCONCERNED

DATE SOLUTION REQUIRED [illegible]

[illegible] CAUSE FOR PROBLEM
- [illegible] MATERIAL
- [illegible] MANUFACTURING
- [illegible] DESIGN
- [illegible] PERFORMANCE DEFICIENCY
- [illegible] PACKAGING
- [illegible] COMPONENT FAILURE
- [illegible] APPLICATION
- [illegible] OPERATING ENVIRONMENT
- [illegible] SUFFICIENT INSTRUCTIONS/DOCUMENTATION

[illegible] CONDITIONS
- [illegible] CLEAN
- [illegible] DIRTY
- [illegible] HI ☐ LO ☐ AVG

[illegible] DETAILS
[illegible] PART NO.
[illegible] TRANSISTOR, ETC.)
[illegible] SYMBOL (R1, M, Q2)
[illegible] NO. OF PARTS
[illegible] PART FAILED
- [illegible] SHORT ☒ OPEN
- ☐ MECH. DAMAGE
- ☐ [illegible] DEGRADEMENT
- ☐ [illegible] ☐ UNKNOWN
- ☐ [illegible] (DESCRIBE)

[illegible] PRELIMINARY ACTION
[illegible] FINAL SOLUTION

[illegible] USE ONLY

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[illegible] APPROVAL [illegible] DATE

[illegible] CONTACTED FOR CORRECTIVE ACTION

[illegible] DISP OF RA# [illegible]
[illegible] DATE RECD [illegible]
[illegible] DATE RETURNED [illegible]

HOURS SPENT SOLUTION

[illegible]	MAN	HRS

- [illegible] COPLS
- [illegible] QUALITY ASSURANCE
- [illegible] PROD LIABILITY
- [illegible] PROD PLANNING
- [illegible] S.P.O.
- [illegible] P.P.O.
- [illegible] CONTRACT OPER
- [illegible] WARRANTY REPAIR
- [illegible] CONTIN. ..TION ENGR.
- [illegible] COMM SERVICES
- [illegible] ORDER CENTER
- [illegible] COMPONENT ENGR

QTY	NAME	PART NO	COMMENTS

FORM SDS 214

5 OF 14

PROBLEM REPORT

Unit 1 Loop C Pressurizer

Letdown Isolation (321)

1 Loop Fails 5-7-13

The output Bias Stays at -13.1 ma

After the output Bias PT has been Adj.

6 OF 14

DR-133

PROBLEM REPORT

Wilson Pelagos Drug Case I

Wilson Metals Palace (SW)

Fall 765 588

Neither the KY nor the KL Valley

will de-energize.

N/L

11

7 OF 14

PROBLEM REPORT

Lift Fan Blade Root Failure

FROM FOS 5-1-14.

No K2 (rosette) strain gage installed.

Refer to FCR 5-1-14, for disposition.

8 of 14

1115-131

PROBLEM REPORT

DATE OF PROBLEM: 6/27/76

D. Schaffer

24 32 | 253

Pete Peterson, Davis Project

Tire Chain Concentric Failure (326)

SIZE: 165 5-8-3

Exact Bar Rivets at -13.5 Ode

and slip Joint Rivets

Offset on Slotted Shuttle: N/A

Operator Attitude: Dissatisfied

Work Completed: 6/29/76

Failure Code: 326

Disposition: Scrap

Approval

Date

PROBLEM REPORT

Hill Air Force Base

Test TCS 3-5-2.

Unit failed to boot up after initiation to Radio Loads when the input power.

10 of 14

PROBLEM REPORT

11 of 14

PROBLEM REPORT

Item 10's 5 of 13.

With Dr. C and gain set at 2 (3) and a [illegible]
1-5 AM the output is 48 Hz and a slight
[illegible] the noise changes the Gain to 5.0.

This means that the noise is not coming in
[illegible] of the frequency and must have
a effect during the shift from [illegible]

Ref to the Spectrum.

1.2 of 14

PROBLEM REPORT

13 OF 14

PROBLEM REPORT

DATE OF PROBLEM: 10/23/76

FROM: D. K. Shaffer

RECORD NO. P.O.: 1220 M

EMP NO: 2432

DEPT NO: 153

CUST ORDER NO: 020 592 LJ

MAIL STA NO. AND P.O. BOX OR STREET ADDRESS: P.O. Box C

CUSTOMER/PLANT: Toledo Edison, Davis-Besse I

CITY AND STATE OR SYSTEM NUMBER: Port Clinton, Ohio

NOMENCLATURE: Signal Monitor Failure (820)

DATE CODE: BZ 0472

SERIAL NO AND/OR PART NO: 6623B198A1

From 4-3-10 - ICS System

The K1 relay will not energize at setpoint, although the light works properly. The problem is suspected to be the K1 relay itself.

10/25/76

11

15

14 of 14

SITE PROBLEM

REPORT TRANSMITTAL

DAVIS-BESSE-1

**** CLEARED ****

TO: Change Control For Distribution

S. H. Klein - Quality Assurance

Control Engineering Files

T. G. Wolcott - Task Engineer

J. F. Lowe - Project Manager

FILE: 13-14-241

CONTRACT NO: 620-00 14

SPR 241

TITLE 820 ICS COMPONENT FAILURES

DATE. 9-15-77

STATUS CODE C

_____ L. C. Rogers - MET. ED.

_____ F. R. Faist - TOLEDO

_____ J. R. Bohart - Intl. Support

_____ J. L. Donnell - OFR

_____ B. A. Karrasch - Plant Integration

_____ D. M. Turner

CLOSED

Attached is one copy of Site Problem Report No. 241 which was processed on Contract 620-00 14. Future contracts have been reviewed for the potential of a similar problem. This problem ~~is~~/is not considered applicable to other contracts _____.

REMARKS: _____

NUCLEAR SERVICE SUPPORT ENGINEER

CLEARED

1 OF 14

TELECOPY TO R.P.WILLIAMSON, NUCLEAR SERVICE (3 pages) Cleared 9/23/77

SITE PROBLEM REPORT

BABCOCK & WILCOX

CUSTOMER	ORIGINATOR DATE	DOC. ID. CONT. NO.	SPR NO.	REV. NO.
Toledo Edison Company	R.J.Baker,Jr. 11/8/76	13 - 620-0014	241	0
VENDOR: Bailey Meter	P.A. NO.: 020 592 LJ	PART NO./TASK NO.: 21/030/003	GROUP NO.	SEQ. NO.
TITLE (MAX 30 CHARACTERS): ICS Component Failures		PROBLEM CONTACT: F. R. Faist		

PROBLEM IDENTIFICATION

DESCRIPTION OF PROBLEM:

While performing the initial module calibrations and open loop test for the ICS, numerous modules could not be calibrated. The attached list describes the ten (10) components requiring repair.

Req'd Resol. Date: N/A
Req'd Comp. Date: 12/15/76

STATUS-ACTION TO DATE, INCLUDING PERSONS CONTACTED:

P.S.S. contacted B&Co - most of parts returned on 10/26/76, others to be returned week of 11/8/76. Frank Hannell contacted. B. Williamson also contacted. TECo I&C aware of problem.

FURTHER ACTION RECOMMENDED BY SITE PERSONNEL:

1. B. Williamson to obtain P. O. from B&W Purchasing ASAP and provide site with the number. Certificate of Conformance not required.
2. SPR to be cleared upon return of all modules.
3. P.S.S. to provide return of material dates.

RESOLUTION

RESOLUTION:

PA # 83-761094-00 has been forwarded to Purchasing Site to clear this SPR upon receipt of all modules.

CLOSED

PREPARED BY	DATE	APPROVED BY	DATE
F.D Hannell	11/16/76	D D Fulkerson	12-6-76
REVIEWED BY: O'Rourke	DATE: 12-5-76		

COST CATEGORY	FIELD CHANGE REQ	F.C.A. NO.	SIGNIF. DEFICIENCY
☐ NORM ☐ OTHER	☐ YES ☒ NO	04-	☐ YES ☒ NO

COMPLETION

SITE COMPLETION REPORT:

All modules have been received on site and turned over to TECo.

DEVIATIONS: ☒ NONE ☐ SPR REV NO.

DATE COMPLETED: 9/13/77

COMPLETED BY: D. L. Allison DATE: 9/13/77

F. R. Faist 9/13/77

The following summarizes the components that have failed in the ICS [illegible] System:

Quantity

2 Pulser Modules
P/N 6605150A1, #1 & #2
(#1) DB-133 ICS 5-3-6
Neither the K1 nor the K2 relays will de-energize
(#2) DB-132 ICS 5-7-14
The K2 (positive) relay will not energize.
Note: Both bulbs are burned out.

3 Function Generators
P/N 6624665A1 #3 - #5
(#3) DB-131 ICS 5-5-3
Output bias remains at -13.5 VDC and adjusting has no effect.
(#4) DB-130 ICS 5-8-2
When placed in bench for calibration, the module loads down the input source.
(#5) DB-134 ICS 5-7-13
The output bias stays at -13.7 VDC and the output bias pot has no effect.

3 Summer + Bias + Inverter
P/N 6623695A2 #6 - #8
(#6) DB-128 ICS PS 5-1-13
With the input #1 gain set at 1.176 and an input #1 of +8.500 VDC the output drifts 25 MV (continuously changing) - no tapping of the module required. Also, the input resistor for the bias seems to be out of tolerance (not at a gain of 2.0).
(#7) DB-129 ICS 5-5-13
Module does not meet the 0.05% accuracy spec., i.e. with the output gain set at 0.5 and a BIAS 2 of -8.297 V, the Eout = +8.267.
(#8) DB-128 ICS 5---13
With the output gain set at 4.998 (0.5) and a BIAS 2 of -8.291 V, the output is +8.273 VDC and a slight tap on the module changes the Eout to 5.03%. Module does not meet the published spec of 0.5% accuracy and must have a defect causing the shift when tapped.

Description of Component Failures - continued:

Quantity

1 Summer + Prop + Integral
P/N 6624151A1C
(#9) DB-127 ICS 4-10-1
Inputs to the summer #1 and #2 have a gain of about 1.01. With a +10.000 VDC input the output is -10.097 VDC. This is outside the spec of 0.010 VDC accuracy for this module. Also, the integral sometimes runs with the integral switch off. The X1, X10 switch moves so hard, it was not moved for fear of damage.

1 Signal Monitor
P/N 6623819A1
(#10) DB-122 ICS 4-5-10
The K1 relay will not energize at setpoint, although the light works properly. The problem is suspected to be in the relay itself.

FRF:nlf

PROBLEM REPORT

TO: PRODUCT SUPPORT

MARK STA. NO. 403

CUSTOMER & PLANT: Toledo Edison, Davis-Besse

SUBJECT: Sensor * Bias * Inverter (PA1)

PROBLEM:

From IOI 9-1-76

With the input at main set at 1.1 Volts we input #1 of AB, output the output drifts by approximately 1.5 volts resulting - no tripping of the module [illegible].

Also, the input resistor for the [illegible] to be out of tolerance (not part of 1.0%).

CUSTOMER ATTITUDE

- ☐ MAJOR CONCERN
- XX CONCERNED
- ☐ UNCONCERNED

DATE SOLUTION REQUIRED: ASAP

D. N. Chaffer

FACILITY NO: 783

P.O. Box 6
Clinton, Ohio 4493[illegible]2

PART NO AND OR PART NO: 25A2

- IN SERVICE
- SHOP
- FIELD APPLICATION
- SYSTEM
- SYSTEM APPLICATION
- WARRANTY
- OTHER

DEFECTIVE PART RETURNED

- NO
- YES ON _____ DATE

PART RETURNED

- INCIDENT
- IN SERVICE (WARRANTY)
- IN SERVICE (NON WARRANTY)
- EST. TIME IN SERVICE

POSSIBLE CAUSE FOR PROBLEM

- ☐ QUALITY MATERIAL
- ☐ QUALITY MANUFACTURING
- ☐ QUALITY DESIGN
- ☐ PERFORMANCE DEFICIENCY
- ☐ QUALITY PACKAGING
- ☐ COMPONENT FAILURE
- ☐ WEAROUT
- ☐ IMPROPER APPLICATION
- ☐ OPERATING ENVIRONMENT
- ☐ INCIDENT INSTRUCTIONS DOCUMENTATION

REPORT OF INVESTIGATION & CORRECTIVE ACTION (FIELD USE)

INITIAL CONDITIONS

- ATMOSPHERE: CLEAN / DIRTY
- HUMIDITY: ☐ HI ☐ LO ☐ AVG

FAILURE DETAILS

- MFG'S PART NO
- DESCRIPT (IC, TRANSISTOR, ETC)
- CIRCUIT SYMBOL (R1, R102)
- MFG. OF PART (IF KNOWN)
- HOW PART FAILED: SHORT / OPEN / MECH. DAMAGE / ☐ INTERMITTENT / ☐ DRIFT / ☐ UNKNOWN / ☒ AS DESCRIBED

IBM USE ONLY

PROBLEM #	ASSIGNED TO	ENTERED	ACKNOWLEDGE	ACTION TAKEN

COPIES:

- QUALITY ASSURANCE
- PROD LIABILITY
- PROD PLANNING
- TPD
- FPD
- CONTRACT OFFER
- WARRANTY REPAIR
- CONTINUATION ENGR
- COMM SERVICES
- ORDER CENTER
- COMPONENT ENGR

☐ PRELIMINARY SOLN ☐ FINAL SOLUTION

ENTERED BY / DATE

APPROVAL / DATE

FORM OF CORRECTIVE ACTION

DISP OF R/M:

DATE RECD:

DATE RETURNED:

HOURS SPENT SOLUTION

DEPT	MAN	HRS
	5 OF 14	

QTY	NAME	PART NO	COMMENTS

FORM SDS 274

PROBLEM REPORT

PRODUCT SYSTEM PRB NO (CMD)

FILE NO (SE)

TO PRODUCT SUPPORT

MAIL STA & NO. ADR

CMD USE ONLY

CUSTOMER & PLANT

Utah Electric Dist-Proj I

(CUSTOMER ONLY) AND TYPE OF SYSTEM/PRODUCT

Litchfield Corridor (320)

DATE OF PROBLEM 10/23/70

PHASE DO TC 12 2 CM

TEST ORDER NO C2C5421.5

SYSTEM TAPE/ MAINFRAME — DATE CODE 10372

FROM DC Stalter

EMP NO 2432 EXT NO 783

MAIL STA DO 1246 SHE

SERIAL NO AND/OR PART NO 662 4110 A1

PROBLEM

Input Bus 5-7-13

The output Bus stays at 13.7VDC

And the output Bus Pot has no effect.

FOR FIELD USE

- MAKE SERVICE
- SERVICE $
- EXPENSES $
- MATERIAL $
- SEO NO

APPLICATION

- PRODUCT
- PRODUCT APPLICATION
- SYSTEM
- SYSTEM APPLICATION
- WARRANTY
- OTHER

DATE EFFECTIVE PRB RETURNED

- NO
- YES ON 1-6-71 DATE
- BY NO. 7251

FAILURE REQUIRED

- YES, RELIEF
- YES, IN SERVICE (WARRANTY)
- YES, IN SERVICE (NON-WARRANTY)
- ESTIMATE IN SERVICE

EFFECT ON SYSTEM (IN DETAIL) N.A.

CUSTOMER ATTITUDE

- MAJOR CONCERN
- CONCERNED
- UNCONCERNED

☐ CONTD ON SEPARATE SHEET

SATISFACTION REQUIRED YES ☐ NO ☐ FIELD ONLY DATE 1-6-71

REPORT OF INVESTIGATION & CORRECTIVE ACTION (BY FIELD IF APPLICABLE)

11

POSSIBLE CAUSE FOR PROBLEM

- P0 FAULTY MATERIAL
- P1 FAULTY MANUFACTURING
- P2 FAULTY DESIGN
- P3 PERFORMANCE DEFICIENCY
- P4 FAULTY PACKAGING
- P5 COMPONENT FAILURE
- P6 WEAROUT
- P7 IMPROPER APPLICATION
- P8 OTHER (DESCRIBE)
- P9 IMPROVEMENT (SUGGESTIONS, DOCUMENTATION)

OPERATING CONDITIONS

AMBIENT TEMP

ATMOSPHERE ☐ CLEAN

☐ AVERAGE ☐ DIRTY

HUMIDITY ☐ HI ☐ LO ☐ AVG

TIME REQUIRED TO

REPAIR

RECALIBRATE

SPARE DETAILS

MOD PART NO

NOMENCLATURE (INCLUDE QTY, TRANSISTOR, ETC.)

CIRCUIT SYMBOL (IF KNOWN)

MFG OF PART (IF KNOWN)

HOW PART FAILED

- ☐ SHORT ☐ OPEN
- ☐ MECH DAMAGE
- ☐ ADJUSTMENT
- ☐ DIRTY ☐ UNKNOWN
- ☐ OTHER (DESCRIBE)

(USE ONLY)

CORRECTIVE	FAILURE CAUSE CODE	FIX SYSTEM	ANSWERBACK	ALT DATA NEW

COPIES

- QUALITY ASSURANCE
- PROD LIABILITY
- PROD PLANNING
- SPO
- FPO
- CONTRACT OPER
- WARRANTY REPAIR
- CONFIGURATION ENGR
- LOGIS SERVICES
- ORDER CENTER
- COMPONENT ENGR

COPIES

☐ PRELIMINARY ANS

☐ FINAL SOLUTION

SIGNATURE DATE

FOLLOW UP ON CORRECTIVE ACTION

APPROVAL DATE

DISP OF RM

DATE RECD

DATE RETURNED

HOURS SPENT SOLUTION

QTY	NAME	PART NO	COMMENTS

DEPT	VAN	HRS
	6 OF 14	

FORM NOS 274

DR-133

PROBLEM REPORT

Life Saver Davis Power I

Pulser Module Failure (SM)

FROM 105 58-3

Notice the K1 and the K2 relay will de-energize.

1 OF 14

PROBLEM REPORT

PRODUCT SYSTEM (FUNC) | FILE NO (SEC)

TO PRODUCT SUPPORT | CMD USE ONLY

SYSTEM NO. 408

CUSTOMER & PLANT: Cleveland Electric Illuminating Co. - Perry Nuclear Power Plant

SUBSYSTEM ONLY AND TYPE OF SYSTEM/PRODUCT: Piping

DATE OF PROBLEM: 10/25/76

SWLOSO NO. P.O.: 122,097

CONTRACT/ORDER NO: 0226921 T

NOMENCLATURE / SERIAL NAME: —

DATE CODE: 0577

FROM: D. Smith

TOP NO: 2432 | ACCT NO: 22

MAIL STATION: RCC 5-72

SERIAL NO. AND OR PART NO: 10-5-1-CCW

FOR FIELD USE
- CONTRACT SERVICE
- SERVICE $
- EXPENSES $
- MATERIAL $
- SEO NO

SEVERITY CLASSIFICATION
- PRODUCT
- PRODUCT APPLICATION
- SYSTEM
- SYSTEM APPLICATION
- WARRANTY
- OTHER

CORRECTIVE MAINTENANCE
- NO
- YES ON WR #
- PM NO 10-5-1

FAILURE OCCURRED
- ON SHOP TEST
- IN SERVICE (WARRANTY)
- IN SERVICE (NON WARRANTY)
- EST TIME TO REPAIR

DOUBLE CAUSE FOR FAILURE
- 01 FAULTY MATERIAL
- 11 FAULTY MANUFACTURE
- 12 FAULTY DESIGN
- 13 PERFORMANCE BEYOND
- 14 FAULTY PACKING
- 15 CONSEQUENT FAILURE
- 16 ABUSE
- 17 WRONG OR INSUFFICIENT
- 18 LACK OF SUPERVISION
- 19 INSUFFICIENT DOCUMENTATION

OPERATING CONDITIONS
- AMBIENT TEMP
- ATMOSPHERE: CLEAN / AVERAGE / DIRTY
- HUMIDITY: HI / LO

WAS REQUIRED TO
- OPERATE
- PERFORM FUNCTION

MALFUNCTION

FAILURE DETAILS

MFG PART NO

DESCRIBE (UNUSUAL CAPABILITY, PREVENTION, ETC.)

CIRCUIT SYMBOL (RT, PT, ETC.)

MFG OF PART (IF KNOWN)

HOW PART FAILED
- SHORT
- OPEN
- MECH DAMAGE
- MISADJUSTMENT
- DIRTY
- BREAKDOWN
- OTHER (DESCRIBE)

EFFECT ON SYSTEM (SAFETY): N.A.

DISPOSITION/ATTITUDE
- MAJOR CONCERN
- CONCERNED
- UNCONCERNED
- DONE ON SEPARATE SHEET

ACTION REQUIRED: [X] INFO ONLY

RESPONSE: Ltr 12-1-76 | DATE: 12-1-76

RESULT OF INVESTIGATION & CORRECTIVE ACTION (IF APPLICABLE): 11

FROM ECS 5-1-14.

The K2 (resistor) relay will not energize.

N.M.: Both relays were found out.

CASE ONLY
POWER TYPE | VOLTAGE/CURRENT | EX SYSTEM | SIGNATURE | ACTION TAKEN BY

COPIES
- QUALITY ASSURANCE
- PROD LIABILITY
- PROD PLANNING
- SPO
- EPO
- CONTRACT OFFR
- WARRANTY REPAIR
- CONSULTATION ENGR
- CSW SERVICES
- ORDER CENTER
- COMPONENT ENGR

COPIES

☐ PRELIMINARY ANS
☐ FINAL SOLUTION

SIGNATURE | DATE

FOLLOW UP ON CORRECTIVE ACTION

QTY	NAME	PART NO	COMMENTS

APPROVAL

DISP OF RM

DATE RECD

DATE RETURNED

HOURS SPENT SOLUTION

DEPT	MAN

FORM NDS 274

DR-131

PROBLEM REPORT

PRODUCT SYSTEM FILE NO (CMDI)

FILE NO (SEI)

TO PRODUCT SUPPORT
MAIL STA. NO. 408

CMD USE ONLY

DATE OF PROBLEM: 10/27/76

RECORDED MOMENT: 12 2601

CUST ORDER NO: 62159ALT

NOMENCLATURE / PART LABEL: | DATE CODE: 6422

FROM: DC Shuttle

EMP NO: 2432 | ACCT NO: 783

MAIL STA NO: TTC Site

SERIAL NO AND/OR PART NO: 1076501

SUBSYSTEM & PLANT: Tile Loss Doors Reset

DESCRIPTION ONLY AND TYPE OF SYSTEM/PRODUCT: Fracture Connector Failure (820)

PROBLEM:

With IES 5-8-3

Output Bus Reads AT -13.5 VDC

Per Adj. Assy Sheet.

CHARGEABLE TO:
- DEVELOPMENT SERVICE
- SUBSYS $
- EXPENSES $
- MATERIAL $
- SFO NO.

ALLOCATION:
- [X] PRIMARY
- [ ] SECONDARY APPLICATION
- [ ] SYSTEM
- [ ] SYSTEM APPLICATION
- [ ] WARRANTY
- [ ] OTHER

DEFECTIVE PART RETURNED:
- [ ] NO
- [X] YES ON 11/1/76 DATE
- EM NO: 12557

FAILURE DISCOVERED:
- [ ] ON RECEIPT
- [ ] IN RELEVANT (WARRANTY)
- [ ] IN SERVICE (NON-WARRANTY)
- EST TIME IN SERVICE

POSSIBLE CAUSE FOR PROBLEM:
- 80 [ ] FAULTY MATERIAL
- 81 [ ] FAULTY MANUFACTURING
- 82 [ ] FAULTY DESIGN
- 83 [ ] PERFORMANCE DEFICIENCY
- 84 [ ] FAULTY PACKAGING
- 85 [ ] COMPONENT FAILURE
- 86 [ ] WEAROUT
- 87 [ ] OPERATOR APPLICATION
- 88 [ ] OPERATING ENVIRONMENT
- 89 [ ] INCORRECT INSTRUCTIONS / DOCUMENTATION

EFFECT ON SYSTEM (MISSION): N.A.

CUSTOMER ATTITUDE:
- [ ] MAJOR CONCERN
- [X] CONCERNED
- [ ] SATISFIED

[ ] CONT'D ON SEPARATE SHEET

INVESTIGATION REQUIRED: [X] YES [ ] NO

SIGNATURE: [illegible] DATE: 10/27/76

SUGGESTED INITIAL ACTION (IF FIELD IF APPLICABLE)

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OPERATING CONDITIONS:
- VARIANT (VP)
- ATMOSPHERE: [ ] CLEAN [ ] DIRTY
- HUMIDITY: [ ] HI [ ] LO [ ] AVG
- TEMPERATURE (°F)
- PRESSURE
- ALTITUDE
- ADDITIONAL DETAILS

FAILED PART NO:
- NOMENCLATURE (TRANSISTOR, ETC.)
- CIRCUIT SYMBOL (IC, R1, Q3)
- MFG. OF PART (IF KNOWN)
- HOW PART FAILED: [ ] SHORT [ ] OPEN
- [ ] HEAT DAMAGE
- [ ] MISALIGNMENT
- [ ] DIRTY [ ] CORROSION
- [ ] OTHER (DESCRIBE)

(CAUSE ONLY)
INVESTIGATOR | CAUSE CAUSE CODE | FA SYSTEM | ANALYZER | ACTION TAKEN BY

COPIES:
- [ ] QUALITY ASSURANCE
- PROD LIABILITY
- PROD PLANNING
- NFO
- FFO
- CONTRACT OPER
- WARRANTY REPAIR
- CONSOLIDATED ENGR
- COMP SERVICES
- CADER CENTER
- COMPONENT ENGR

COPIES

[ ] PRELIMINARY ANS
[ ] FINAL SOLUTION

SIGNATURE DATE

FOLLOW UP ON CORRECTIVE ACTION

APPROVAL DATE

DISP OF P.R.
DATE RECD
DATE RETURNED

HOURS SPENT SOLUTION

DEPT	VAN	MMS
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QTY	NAME	PART NO	COMMENTS

FORM 905 224

PR 136

PROBLEM REPORT

U.S. Data-Recorder

Regulator Command Failure (620)

From TOS 5-8-2.

Action required to determine the source cause for the report failure.

LR0129

PROBLEM REPORT

TO PRODUCT SUPPORT
MAIL STA NO. 408

PRODUCT/SYSTEM FILE NO.
FILE NO.
FMD USE ONLY

DATE OF PROBLEM: 11-2-72
PRODUCT NO.: 13201
CUST ORDER NO.: CZC8221T
DATE CODE: 10472
S/N: 2432
MAIL STA NO.: 556

CUSTOMER & PLANT: Tele... Gilson, Davis Besse I

Symptom: Bias ... Failure (S2C)

PERFORMANCE ATTITUDE
COMMUNICATION
EXPENSES
MILEAGE

CLASSIFICATION
DESIGN
WARRANTY
OTHER

DEFECTIVE PART RETURNED
NO
YES

EFFECT ON SYSTEM OPERATION

PROBABLE CAUSE FOR PROBLEM
FAULTY MATERIAL
FAULTY MANUFACTURING
FAULTY DESIGN

REPORT OF INVESTIGATION & CORRECTIVE ACTION

OPERATING CONDITIONS
AMBIENT TEMP
ATMOSPHERE: CLEAN / DIRTY
HUMIDITY
DATE RETURNED
HOW PART FAILED
SHORT / OPEN
OTHER (DESCRIBE)

SALES
QUALITY ASSURANCE
PROD. LIABILITY
PROD. PLANNING
NPO
FPO
CUSTOMER SERVICE
WARRANTY REPAIR
CONTINUATION ENGR
COMPONENT ENGR

PRELIMINARY ANS
FINAL SOLUTION
FOLLOW UP ON CORRECTIVE ACTION

SIGNATURE DATE
APPROVAL DATE

DISP OF H.M.
DATE REC'D
DATE RETURNED

QTY | NAME | PART NO. | COMMENTS

FORM NO. 276

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PROBLEM REPORT

Edwards DAFB: Bench II

Shaker & Bad Unit Failure (320)

Test 105 5-4-13.

With the output gain set at 4(5) Volts and a duty of 1.5 ms the output is 18.2 Volts and a slight dip on the Meade changes that to 3.0 Volts.

This means that the Module is not meeting the published spec of 10% accuracy and must have a short causing the shift when tapped.

Not in the System yet.

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PROBLEM REPORT

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PROBLEM REPORT

DATE OF PROBLEM 10/23/76

D. E. Shaffer

2432 153

Toledo Edison, Davis-Besse I

020 592 LJ

P.O. Box C
Fort Clinton, Ohio

Signal Monitor Failure (820)

-- UX 0412

From 4-5-10 - ICS System

The x1 relay will not energize at setpoint, although the light works properly. The problem is suspected to be the x1 relay it self.

10/25/76

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