

SITE PROBLEM

REPORT TRANSMITTAL

DAVIS-BESSE-1

**** CLEARED ****

TO: Change Control For Distribution

S. H. Klein - Quality Assurance

Central Engineering Files

I. G. Walcott - Task Engineer

J. P. Lowe - Project Manager

FILE: 13-14-241

CONTRACT NO: 620-00 141

SPR 241

TITLE 720 ICS COMPONENT

FAHRES

DATE: 9-15-77

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 620-00 141. Future contracts have been reviewed for the potential of a similar problem. This problem is/is not considered applicable to other contracts _____

REMARKS: _____

[Signature]
NUCLEAR SERVICE SUPPORT ENGINEER

CLEARED

1 OF 14

7910040401

9/23/77
Clear add 28091 (2/26)

SITE PROBLEM REPORT		BABCOCK & WILCOX	
CUSTOMER Toledo Edison Company	ORIGINATOR R.J. Baker, Jr.	DATE 11/8/76	DOC. ID. CONT. NO. 620-0014
VENDOR Bailey Meter	P.A. NO. 020 592 17	PART NO./TASK NO. 21/030/003	SPR NO. 241
TITLE (MAX 30 CHARACTERS) 100 ICS Component Failures		PROBLEM CONTACT P. 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 BCo - most of parts returned on 10/26/76, others to be returned week of 11/8/76. Frank Hannell contacted. R. 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 <i>F. D. Hannell</i>	DATE 11/16/76	APPROVED BY <i>P. R. Faist</i>
	REVIEWED BY <i>P. R. Faist</i>	DATE 12-2-76	DATE 12-6-76
COST CATEGORY <input type="checkbox"/> NORM <input type="checkbox"/> OTHER		FIELD CHANGE REQ <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	F.C.A. NO. 04-
		SIGNIF. DEFICIENCY <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
COMPLETION	SITE COMPLETION REPORT: All modules have been received on site and turned over to TECo.		DEVIATIONS: <input checked="" type="checkbox"/> NONE SPR REV NO. <input type="checkbox"/>
			DATE COMPLETED: 9/13/77
			COMPLETED BY D. L. Allison DATE 9/13/77 <i>D. L. Allison</i> F. R. Faist 9/13/77
		SHEET 2 OF 14	

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

Quantity

2

Fulcrum Mod.

P/N 6625160A1, #1 & #2

(1) DB-133 ICS 5-8-8

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 6604665A1 #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 6603695A2 #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 E_{out} = +8.267.

(8) DB-128 ICS 5-4-13

With the output gain set at 4.926 (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 E_{out} to 5.035. Module does not meet the published spec of 0.5% accuracy as must have a defect causing the shift when tapped.

SPR #241
620-0014
11/8/76

Description of Component Failures - continued:

Quantity

- 1 Summer + Prop + Integral
P/N 6624151A1C
① DE-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 DE-122 ICS 4-5-10
The KI relay will not energize at setpoint, although the
light works properly. The problem is suspected to be in
the relay itself.

PRF:nlf

PROBLEM REPORT

THE PRODUCT SUPPORT

FORM NO. 403

REVISED 1-6-61

Customer Name: Tele. Room, West-Phone

Product Name: Switch * 101-1000000

From: IBM 101-1000000

With the unit in operation, the output of the unit is not as expected. The output is not as expected. The output is not as expected. The output is not as expected.

Also, the input resistor is not as expected. The tolerance is not as expected. The tolerance is not as expected. The tolerance is not as expected.

CUSTOMER ATTITUDE

- MAJOR CONCERN
- CONCERNED
- UNCONCERNED

DATE SOLUTION REQUIRED:

REPORT OF INVESTIGATION:

Mr. J. L. Huffer
 783
 P.O. Box 0
 Tinton, Ohio 43082

REASON FOR PART RETURNED
 DEFECTIVE PART
 DEFECTIVE APPLICATION
 DEFECTIVE INSTALLATION
 DEFECTIVE OPERATING ENVIRONMENT
 DEFECTIVE INSTRUCTIONS
 DEFECTIVE DOCUMENTATION

DATE RECEIVED: DATE:
 IN SERVICE (WARRANTY)
 IN SERVICE (NON-WARRANTY)
 NOT IN SERVICE

REASON FOR PROBLEM
 MATERIAL DEFECT
 MANUFACTURING DEFECT
 DESIGN DEFECT
 PERFORMANCE DEFICIENCY
 PACKAGING DEFECT
 INSTALLATION FAILURE
 OPERATING ENVIRONMENT
 INADEQUATE INSTRUCTIONS
 INADEQUATE DOCUMENTATION

OPERATING CONDITIONS
 AMBIENT TEMP.
 CLEAN
 DIRTY
 HUMIDITY
 VIBRATION
 ELECTRIC FIELD
 MAGNETIC FIELD
 AIR POLLUTION
 OTHER
 PART FAILURE
 SHORT
 MECH. DAMAGE
 INSTALLMENT
 OTHER
 UNKNOW
 HELD DESCRIBE

DATE	DESCRIPTION	BY	STATUS
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COPIES
 QUALITY ASSURANCE
 PROD. LIABILITY
 PROD. PLANNING
 S.P.D.
 F.R.O.
 CONTRACT ORER
 WARRANTY REPAIR
 CONTIN. TION ENGR.
 COMM. SERVICES
 ORDER CENTER
 COMMENT ENGR.

PRELIMINARY ACTION
 FINAL SOLUTION
 FOLLOW UP ACTION

DATE RECEIVED
 DATE RETURNED

HOURS TO SOLUTION		
DEPT.	MAN.	HR.

DATE	SAME	PART NO.	COMMENTS

PROBLEM REPORT		PRODUCT SYSTEM FILE NO ICMDI	FILE NO 024	DATE OF PROBLEM 10/28/76 PLAS ID NO 122601 ORDER NO 02059215 DATE OF 10/31/76	WORK DE Stalder 1182 753 1200 SITE 60240001
TO PRODUCE SUPPORT		LVD USE ONLY			
MAKE STA NO 408					
CITY AND PLANT					
NAME AND TYPE OF SYSTEM PRODUCT 1200 SITE 1200 SITE (421)					
EFFECT ON SYSTEM (SCHEDULE) 1200 SITE 5-7-13 The output Buss stays at -13.7VDC And the output Buss Pt has no effect.					
CONDUCTOR ATTITUDE <input type="checkbox"/> OTHER CONCERN <input type="checkbox"/> UNDETERMINED <input type="checkbox"/> UNKNOWN ALL INFORMATION REQUIRED					
POINT OF INVESTIGATION & CORRECTIVE ACTION BY FIELD REPRESENTATIVE					

<input type="checkbox"/> RECEIVED <input type="checkbox"/> MAIL SERVICE <input type="checkbox"/> TELETYPE <input type="checkbox"/> FAX <input type="checkbox"/> TELEPHONE <input type="checkbox"/> MULTIMEDIA <input type="checkbox"/> VIDEO <input type="checkbox"/> AUDIO <input type="checkbox"/> PHOTO <input type="checkbox"/> OTHER	<input type="checkbox"/> TELETYPE <input type="checkbox"/> FAX <input type="checkbox"/> TELEPHONE <input type="checkbox"/> MULTIMEDIA <input type="checkbox"/> VIDEO <input type="checkbox"/> AUDIO <input type="checkbox"/> PHOTO <input type="checkbox"/> OTHER
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COPIES QUALITY ASSURANCE PROD LIABILITY PROD PLANNING NFO EFO CONTRACT OPER WARRANTY CENTER CONSULTATION CENTER COMM SERVICES ORDER CENTER COMPONENT ENGR	QTY NAME PART NO COMMENTS	APPROVAL DATE SUPERVISOR CALL REC'D DATE RETURNED COMMENTS DATE MAN HUS
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6 OF 14

ROBLET REPORT

PROJECT SUPPORT

DATA NO. 438

STEELER & PLANT

Libco Nelson Davis Case I

Libco Metal Failure (82)

FILE NO 588

Whether the RT or the RD activity will be analyzed.

DR-133

UNIT OF MEASURE

1221A1

1221A1

1221A1

1221A1

1221A1

1221A1

1221A1

DC 210026

2432

533

2432

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NO. OF ALTERNATE

MAJOR DEFECT

MINOR DEFECT

NO. OF DEFECTS

NO. OF DEFECTS

NO. OF DEFECTS

NO. OF DEFECTS

NO. OF DEFECTS

EFFECT ON SYSTEM

Nil

DEFINITION

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PROBLEM REPORT	PRODUCT SYSTEM FILE NO P.O. NO.	FILE NO (SEE)	DATE OF PROBLEM 10/25/76	FORM NO 100-5000
PLANT NO. 418	CMO USE ONLY		122 007	2432 178
CUSTOMER'S NAME L. H. Wilson, Davis Base F			122 007	1001 5.00
CORRECT LINE ONLY AND TYPE OF SYSTEM/PRODUCT L. H. Wilson, Davis Base F			122 007	1001 5.00
			10/27	1001 5.00

FORM 505 5-1-74

The R2 (Positive) Relay will not
operate.

Check both relays, see manual out.

- CUSTOMER RATIONALE
- MAINTENANCE
 - CONCERNED
 - UNEXPECTED

SPACE ON SYSTEM (CHECK) 1-A

17

- SERVICE
 - REPAIR
 - MATERIAL
 - INFORMATION
 - EQUIPMENT
 - INSTALLATION
 - MAINTENANCE
 - OTHER
- EFFECTIVE DATE (CHECK)
NO
- FORM NO. 1001
- FAULTS DETECTED
- SHORT
 - OPEN
 - GROUND
 - OVERVOLTAGE
 - UNDERVOLTAGE
 - OVERTEMPERATURE
 - UNDERTEMPERATURE
 - OVERCURRENT
 - UNDERCURRENT
 - OVERSPEED
 - UNDERSPEED
 - OVERPRESSURE
 - UNDERPRESSURE
 - OVERFLOW
 - UNDERFLOW
 - OVERWEIGHT
 - UNDERWEIGHT
 - OVERFORCE
 - UNDERFORCE
 - OVERSTRESS
 - UNDERSTRESS
 - OVERHEAT
 - UNDERHEAT
 - OVERSOUND
 - UNDERNOISE
 - OVERVIBRATION
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 - UNDERSMELL
 - OVERTASTE
 - UNDERTASTE
 - OVERTEXTURE
 - UNDERTEXTURE
 - OVERCOLOR
 - UNDERCOLOR

QUANTITY	DESCRIPTION	IN SYSTEM	REMARKS	DATE
	RELAY		REPLACEMENT	
	RELAY		REPLACEMENT	

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PROBLEM REPORT

TO: PRODUCT SUPPORT

CUSTOMER'S NAME

FILE NO. DET

DATE OF PROBLEM

MAIL STA. NO. 408

MAIL STATION

DATE OF PROBLEM

MAIL STATION

DATE OF PROBLEM

MAIL STATION

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MAIL STATION

MAIL STATION

1775-131
Customer Name: Davis, David
Product: Concrete Failure (320)

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PROBLEM REPORT

PRODUCT SUPPORT
FORM SPA NO. 418

SYSTEM NO. _____
CNO. _____

FILE NO. _____
USE

DATE OF PROBLEM
6/22/82
1982

FORM NO. _____
2452 783

NAME OF CUSTOMER AND TYPE OF SYSTEM PRODUCT
11000 Drive - Zone II
Wheaton Column Tower (20)

LOCATION OF PROBLEM
63159215
DATE OF USE
10472

MANUFACTURER'S PART NO.
16400531

Time 10:52
Wheat placed in burner for whitening
to make leads when the input came.

CUSTOMER ATTITUDE
 MAJOR CONCERN
 MINOR CONCERN
 UNCONCERNED

EFFECT ON CUSTOMER
110
EFFECT ON OPERATIVE SHEET
11

REMARKS CONCERNING OPERATION & CORRECTIVE ACTION BY FIELD REPRESENTATIVE

- STATUS SERVICE
- SERVICE
 - EXCHANGE
 - REPAIR
 - NO NO
 - RETURN
 - DEFENSE
 - DEFENSE APPLICATION
 - SYSTEM
 - SYSTEM MODIFICATION
 - DEFENSIVE
 - OTHER

EFFECTIVE DATE RECEIVED
DATE
6/22/82
TIME
10:52

- REASON FOR RETURN
- DEFENSE
 - DEFENSE OVERSIGHT
 - DEFENSE IN USE
 - DEFENSE FAILURE
 - DEFENSE FOR PA-RAM
 - DEFENSE MATERIAL
 - DEFENSE MANUFACTURING
 - DEFENSE DESIGN
 - DEFENSE PARTS DEFICIENCY
 - DEFENSE TESTING
 - DEFENSE FAILURE
 - DEFENSE USE
 - DEFENSE APPLICATION
 - DEFENSE PARTS DEFICIENCY
 - DEFENSE MANUFACTURING

REASON FOR RETURN
REASON FOR RETURN
11

QUALITY ONLY

QUALITY ONLY	DATE	INITIALS	SIGNATURE	DATE
DEFENSE ASSURANCE				
DEFENSE LIABILITY				
DEFENSE PLANNING				
DEFENSE PRO				
DEFENSE COVER				
DEFENSE REPAIR				
DEFENSE INSUR				
DEFENSE SERVICES				
DEFENSE CENTER				
DEFENSE CENTER				

- REASON FOR RETURN
- DEFENSE
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APPROVAL _____ DATE _____
DATE RETURNED _____
REASON FOR SOLUTION
LIFE _____ M/W _____ HRS _____
10/14

123429

PROBLEM REPORT

NO. PRODUCT PROJECT

STATE NO. 438

PROJECT SYSTEM
PLANT NO.
CAMP

NO. ONLY

FILE NO.
331

DATE OF PROBLEM

11/2/74

PLANT NO.

123429

PLANT NO.

10411

PLANT NO.

2432

PLANT NO.

733

West Area Plant
Sinter & Gas I Div. Filter (92)

Part 108-5-13

with the current of 100 at 15 and 1 1/2
to 3.244 the flow is 11.211.

the counter that the valve is not
working with accuracy.

REASON FOR PROBLEM: Not working

CONFIRMATION

1. TRANSDUCER

2. CONTROL

3. VALVE

4. OTHER

5. WIRE

6. POWER

7. OTHER

8. OTHER

9. OTHER

10. OTHER

11. OTHER

12. OTHER

13. OTHER

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36. OTHER

37. OTHER

38. OTHER

39. OTHER

40. OTHER

REASON FOR PROBLEM

1. TRANSDUCER

2. CONTROL

3. VALVE

4. OTHER

5. WIRE

6. POWER

7. OTHER

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60. OTHER

PROBLEM REPORT	TYPE OF SYSTEM LAND MOB	FILE NO. 44	DATE OF REPORT 10/2/76	REPORT NO. 2432
FOR THE DISTRICT AT MAINTENANCE OFFICE	TYPE OF PROBLEM LAND ONLY	PROJECT NO. C-127007	DATE OF PROBLEM 08/22/76	REPORTING OFFICER 112
TITLE OF PROBLEM L-1015, Elmore, Davis, Rose I SUMMER TRASH (IN Future (32))			LOCATION 1000000000	REPORTING OFFICER 112

From 105-5-13.

With Be 6 that was set at 2:13 PM a call
1:20 PM the output is 18.13000 and a slight
in the main stages the (to 10.500).

This means that the valve is not moving in
relation to the 10% memory and must have
a defect during the shift when tapped.

NOTE ON INVESTIGATION Not by the system yet.

RECOMMENDATION
1. CHECK VALVE
2. CHECK MEMORY
3. CHECK SYSTEM

11

NO.	NAME	DATE	REMARKS
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29			
30			

12/14

SITE PROBLEM

REPORT TRANSMITTAL

DAVIS - BESSE - 1

**** CLEARED ****

TO: Change Control For Distribution

S. H. Klein - Quality Assurance

Central Engineering Files

J. G. Walcott - Task Engineer

J. P. Lowe - Project Manager

FILE: 13-17-241

CONTRACT NO: 620-00 141

SPR 241

TITLE 720 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 620-00 141. Future contracts have been reviewed for the potential of a similar problem. This problem ~~is~~ is not considered applicable to other contracts _____.

REMARKS: _____

Dennis P. Rice
NUCLEAR SERVICE SUPPORT ENGINEER

CLEARED

1 OF 14

9/23/77
Clear 28091(8-76)

SITE PROBLEM REPORT		BABCOCK & WILCOX	
CUSTOMER Toledo Edison Company	ORIGINATOR R.J. Baker, Jr.	DATE 11/8/76	DOC. ID. CONT. NO. SPR NO. REV. NO. 43-620-0014 241 0
VENDOR Bailey Meter	P.A. NO. 020 592 LJ	PART NO./TASK NO. GROUP NO. SEQ. NO. 21/030/003	
TITLE (MAX 30 CHARACTERS) BMO ICS Component Failures		PROBLEM CONTACT F. R. Faist <i>Faist</i>	
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 BMO - 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 <i>F. D. Hannell</i>	DATE 11/16/76	APPROVED BY <i>D. J. [unclear]</i>
	REVIEWED BY <i>[unclear]</i>	DATE 12-2-76	DATE 12-6-76
	COST CATEGORY: <input type="checkbox"/> NORM <input type="checkbox"/> OTHER <input type="checkbox"/> FIELD CHANGE REQ: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO F.C.A. NO. 04- SIGNIF. DEFICIENCY: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
COMPLETION	SITE COMPLETION REPORT: All modules have been received on site and turned over to TECo.		DEVIATIONS: <input checked="" type="checkbox"/> NONE <input type="checkbox"/> SPR REV NO. <input type="checkbox"/>
	DATE COMPLETED: 9/13/77		
	COMPLETED BY <i>[unclear]</i> F. R. Faist		DATE 9/13/77
SHEET 2 OF 14			

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

Quantity:

- 2 Fulser Modules
P/N 6625150A1, #1 & #2
#1 DB-133 ICS 5-3-5
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 Sumner + Bias + Inverter
P/N 6623695A2 #6 - #8
#6 DB-128 ICS 5-1-13
With the input gain set at 1.176 and an input signal 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 5-3-13
Module does not meet the 0.5% accuracy spec., i.e. with the output gain set at 0.5 and a BIAS of -8.291 V, the Bout = +8.267.
#8 DB-128 ICS 5-1-13
with the output gain set at 0.5 and a BIAS of -8.291 V, the output is +8.273 VDC and a slight tap on the module changes the Bout to 5.03%. Module does not meet the published spec of 0.5% accuracy and must have a defect causing the shift when tapped.

PROBLEM REPORT

FOR PRODUCT SUPPORT

FORM STG. NO. 403

CUSTOMER & PLANT

Toledo Edison, Inc. - Toledo

SUBJECT LINE

Sumner + P. 22 + Inverter

PROBLEM

From ICI 4-8-63

With the input #1 gain set at 1.1 and the input #2 of 28, 500VDC the output drifts to approximately 1.5% below the nominal value - no tapping of the output is required.

Also, the input resistor for the rear seems to be out of tolerance (not gain of 1.00).

EFFECT ON OPERATIONALITY: Not in system yet.

CUSTOMER ATTITUDE

MAJOR CONCERN

CONCERNED

UNCONCERNED

WAS SOLUTION REQUIRED

YES

REPORT OF INVESTIGATION AND CORRECTIVE ACTION BY FIELD OFFICE

1111 1111

N. W. Shaffer

783

P.O. Box 9
Clinton, Ohio 43101

755242

SERVICE
 PARTS
 REPAIR
 REWORK
 REWORK APPLICATION
 SYSTEM APPLICATION
 WARRANTY

DEFECTIVE PART RETURNED
NO
 YES ON _____ DATE

RECEIVED
 IN SERVICE WARRANTY
 IN SERVICE NON WARRANTY
EST. TIME IN SERVICE

POSSIBLE CAUSE FOR PROBLEM
 MANUFACTURING
 DESIGN
 PERFORMANCE DEFICIENCY
 PACKAGING
 COMPONENT FAILURE
 WEAR/TEAR
 OPERATING ENVIRONMENT
 INCORRECT INSTRUCTIONS
DOCUMENTATION

RELATIVE CONDITIONS
APPLICABLE TO
ATMOSPHERE CLEAN
 DIRTY
HUMIDITY HI LO AVG

REPAIR DETAILS
WAS PART NO.
DESCRIPTION
CIRCUIT SYMBOL
MFG. OF PART

WAS PART FAULT
 SHORT OPEN
 MECH. DAMAGE
 MISALIGNMENT
 DIRTY UNKNOWN
 REPAIR DESCRIBE

USE ONLY

IDENTIFY	DATE	BY	APPROVED	REASON
----------	------	----	----------	--------

COPUS
QUALITY ASSURANCE
PROD. LIABILITY
PROD. PLANNING
NPD
FRD
CONTRACT ORER
WARRANTY REPAIR
CONTINUATION ENGR
COMM SERVICES
ORDER CENTER
COMPONENT ENGR

PRELIMINARY SOL. _____ DATE _____
FINAL SOLUTION _____ DATE _____
FIELD OFFICE CORRECTIVE ACTION

TOP OF RV
DATE RECD
DATE RETURNED

HOURS SPENT SOLUTION		
DEPT	MAN	HRS

QTY	NAME	PART NO.	COMMENTS

5 of 14

PROBLEM REPORT		PRODUCT SYSTEM FILE NO 10001	FILE NO 101	DATE OF PROBLEM 10/25/76	FROM DE STALKER
TO PRODUCT SUPPORT		EMPLOYEE NO. 2432	STATION NO. 783	ENCLOSURE NO. 1226M	
MAIL STA. NO. 408		EMPLOYEE NAME 1730 SUE		COST ORDER NO. 0205421J	
CUSTOMER'S PLANT TIPON, ENGR. CO. Davis-Rose I		MAIL STA./DD 1730 SUE		UNIT LABEL - 10372	
SURVEILLANCE ONLY AND EFFECT OF SYSTEM/PRODUCT TIPON COORDINATOR (820)		SERIAL NO. AND/OR PART NO. 0024000A1			

PROBLEM
FROM LOS 5-7-13
The output Bias Stays at -13.700
And the output Bias Pot has no effect.

EFFECT ON SYSTEM (RELATIVE) *N.A.*

CUSTOMER ATTITUDE
 MAJOR CONCERN
 MODERATE
 MINOR CONCERN
 NO SOLUTION REQUIRED

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

FOR FIELD USE

DATE OF SERVICE
SERVISE \$
EXISTS \$
MATERIAL \$
SERV. NO.

APPLICATION
 PRODUCT
 TROUBLE APPLICATION
 SYSTEM
 SYSTEM APPLICATION
 WARRANTY
 OTHER

DEFECTIVE PART RETURNED
 NO
 YES ONE *DATE*
 RM NO. *10051*

FOR SERVICE USE ONLY
 SA SERVICE
 IN SERVICE (WARRANTY)
 IN SERVICE (NO WARRANTY)
 EST. TIME IN SERVICE

FOR SHOP CASE FOR PROBLEM
 00 FAULTY MATERIAL
 01 FAULTY PARTS INSTALLING
 02 FAULTY DESIGN
 03 PERFORMANCE DEFICIENCY
 04 FAULTY PACKAGING
 05 COMPONENT FAILURE
 06 WELDING
 07 MOUNTING APPLICATION
 08 OPERATING ENVIRONMENT
 09 INSUFFICIENT INSTRUCTIONS
 RECOMMENDATION

OPERATING CONDITIONS
 AMBIENT TEMP. CLEAN
 ATMOSPHERE DIRT
 AVERAGE DIRT
 HUMIDITY HIGH AVG
 TIME REQUIRED TO
 RECALIBRATE
 REPAIR DETAILS
 WOOD PART NO.
 WIRE
 LOW VOLT. DET. TRANSFORMER EXC.
 CIRCUIT BOARD (SHEET NO.)
 NO. OF PARTS KNOWN
 NEW PART OPEN
 SHORT OPEN
 MECH. DAMAGE
 ADJUSTMENT
 DIRTY UNKNOWN
 OTHER (DESCRIBE)

COPIES	COPIES	PRELIMINARY ANSWERS	SIGNATURE	DATE	APPROVAL	DATE
QUALITY ASSURANCE		FINAL SOLUTION				
PROD. LIABILITY		FOLLOW UP IN CORRECTIVE ACTION				
PROD. PLANNING						
NPD						
EPO						
CONTRACT OPER.						
WARRANTY REPAIR						
COORDINATION ENGR.						
COMM. SERVICES						
ORDER CENTER						
COMPONENT ENGR.						

HOURS SPENT SOLUTION

LEFT	MAN	HRS

6 OF 14

105-133

PROBLEM REPORT		SYSTEM 140	PLANT 101	DATE OF REPORT 11/2/81	FORM NO. 20-2100-1
PRODUCT SUPPORT	PL STA NO. 408	CMO USE ONLY		12/2/81	2432 533
SYMBOL & PLANT				630	101
11000 Power Drive Power T				101	101
Failure Mode (SIC)				101	101

FROM 105 5-8-8

Notice the RT with the RT Relay will be changed.

REPAIR ATTITUDE

MAJOR CONCERN

MINOR CONCERN

NO CONCERN

REPAIRS REQUIRED

DATE OF NEXT SCHEDULED MAINTENANCE BY FIELD (MM/DD/YY)

INITIALS

DATE

TIME

LOCATION

DESCRIPTION

REASON FOR FAILURE

REPAIRS PERFORMED

DATE OF REPAIR

TIME OF REPAIR

LOCATION OF REPAIR

INITIALS

DATE

TIME

LOCATION

DESCRIPTION

REASON FOR FAILURE

REPAIRS PERFORMED

DATE OF REPAIR

TIME OF REPAIR

LOCATION OF REPAIR

CIRCUIT	SYMBOL	PLANT	DATE	NATURE	INITIALS	DATE	TIME	LOCATION	DESCRIPTION	REASON FOR FAILURE	REPAIRS PERFORMED	DATE OF REPAIR	TIME OF REPAIR	LOCATION OF REPAIR	STATUS		
															OPEN	CLOSED	RESOLVED

2 OF 14

PROBLEM REPORT	PRODUCT SYSTEM P.C. NO. (C.M.D.)	FILE NO. (SER)	DATE OF PROBLEM 10/25/76	FORM NO. 2432
TO PRODUCT SUPPORT MAIL STA. NO. 408	C.M.D. USE ONLY		172 09	75
CUSTOMER & PLANT 1. John Wilson, Davis-Besse I			120592 JT	MAIL STATION
CORRECTIONS ONLY AND TYPE OF SYSTEM/PRODUCT Relay Module Failure			10872	SERIAL NO. AND OF PART NO. 10005.00 10051001

FROM ICS 5-1-14.
 The K2 (Positive) Relay will not
 energize.
 Note: Both Relays are locked out.

IN FIELD USE

DEVICE SERVICE
 EXHAUSTS
 MATERIAL
 S.E. NO.

APPLICATION

PRODUCT
 DIRECT APPLICATION
 SYSTEM
 SYSTEM APPLICATION
 WARRANTY
 OTHER

EFFECTIVE PART RETURNED

NO
 YES (DATE)
 RM NO. 10057

FAILURE OCCURRED

ON DELIVERY
 IN SERVICE (WARRANTY)
 IN SERVICE (NON WARRANTY) (SEE TIME IN RES.)

REASON FOR FAILURE

60 - FAILURE BY USER
 61 - FAILURE BY MANUFACTURER
 62 - FAILURE DESIGN
 63 - PART DAMAGE (ELECTRIC)
 64 - FAILURE BY USER (ELECTRIC)
 65 - COMPONENT FAILURE
 66 - UNKNOWN
 67 - FAILURE BY APPLICATION
 68 - FAILURE BY USER (ELECTRIC)
 69 - FAILURE BY USER (ELECTRIC)
 70 - MISAPPLICABLE

OPERATING CONDITIONS

AMBIENT TEMP
 AT TIME OF FAILURE: CLEAN DIRTY
 AVERAGE DAILY
 CONTAMINANT: HUMIDITY DUST

REPAIR REQUIRED TO

REPAIR
 REPLACE
 REWORK
 REWORK DETAILS
 NO PART NO.
 REWORK (MOUNT, CAP, TRIMMING)
 MOUNT SYMBOL (RT. PL. QTY)
 QTY OF PART (IF KNOWN)
 NEW PART FAILED
 SHORT OPEN
 MECH. DAMAGE
 MISASSEMBLY
 DIRTY UNKNOWN
 OTHER (DESCRIBE)

EFFECT ON SYSTEM (CHECK ONE)

MAJOR CONCERN
 CONCERNED
 UNCONCERNED

NO ACTION REQUIRED
 INFO ONLY

CONFIDENTIAL
 CONFIDENTIAL (PARTIAL)

FOR USE ONLY

WORK TYPE	FAILURE CODE	P.C. SYSTEM	INITIATOR	ACTION TAKEN
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PRELIMINARY ANSWER
 FINAL SOLUTION
 FOLLOW UP ON CORRECTIVE ACTION

COPIES	COPIES	SIGNATURE	DATE	APPROVAL
QUALITY ASSURANCE TRAINABILITY PROD. PLANNING SFD IFO CONTRACT OPER. WARRANTY REPAIR CONTINUATION ENGR. COMM. SERVICES ORDER CENTER COMPONENT ENGR.	QTY NAME PART NO. COMMENTS			DISP. OF R.M. DATE RECD. DATE RETURNED HOURS SPENT SOLUTION DEPT. MAN.

FORM 505 274

8 of 14

120-131

PROBLEM REPORT	PRODUCT SYSTEM FILE NO FORM	FILE NO DATE	DATE OF PROBLEM SPECIFIC WORKS CUST. ORDER NO.	MAIL STATION SERIAL NO. AND/OR PART NO.
TO PRODUCT SUPPORT MAIL STA. NO. 408	CMD DIST ONLY		102576 12204 0225041	2432 283 760 Site 1047601
DISTRIBUTOR & PLANT Miles Electric, Davis, Calif FUNCTION GENERATOR FAILURE (820)			NO. OF PARTS SERIAL LABEL	10476

FROM ICS 5-8-3
Output B.M.S. Remains AT -13.5VDC
and self. All no effect.

RECEIVED SERVICE
 SERVICE
 EXPENSES
 MATERIAL
 S.F. NO.

ALLOCATION
 PRODUCT
 EQUIPMENT APPLICATION
 SYSTEM
 SYSTEM APPLICATION
 WARRANTY
 OTHER

RECEIVE PART RETURNED
 YES
 NO
 DATE: 12/2/76
 CMNO: 10257

FAILURE CATEGORIES
 ON RECEIPT
 IN-PROCESS WARRANTY
 IN-PROCESS (NON-WARRANTY)
 EST. TIME IN SERVICE

POSSIBLE CAUSE FOR FAILURE
 01 FAULTY MATERIAL
 02 FAULTY MANUFACTURING
 03 FAULTY DESIGN
 04 PERFORMANCE DEFICIENCY
 05 FAULTY PACKAGING
 06 TRANSPORT DAMAGE
 07 IMPROPER APPLICATION
 08 USER ERROR
 09 INADEQUATE INSTRUCTIONS
 10 MISIDENTIFICATION

EFFECT ON SYSTEM (BRIEFLY) *N/A*

COPY ON SEPARATE SHEET

SIGNATURE: *[Signature]* DATE: *[Date]*

DISTRIBUTOR ATTITUDE
 MAJOR CONCERN
 MODERATE
 MINOR
 NONE

OPERATING CONDITIONS
 AMBIENT TEMP. CLEAN
 DIRT
 DRY
 WET
 LO
 AVG

REPAIR REQUIRED TO:
 REPAIR
 REPLACE
 REWORK
 REPAIR DETAILS
 REPAIR NO.

REASON FOR FAILURE
 USER ERROR (TRAINING, ETC.)
 REPAIR SYMBOL (IC, PL, GJ)
 NO. OF PART (UNKNOWN)
 HOW PART FAILED
 SHORT
 OPEN
 BLOWN DAMAGE
 ADJUSTMENT
 DIRTY
 UNKNOWN
 OTHER (DESCRIBE)

COPIES	COPIES	PN SYSTEM	INITIALS	ACTION TAKEN BY	SIGNATURE	DATE	APPROVAL	DATE
QUALITY ASSURANCE				<input type="checkbox"/> PRELIMINARY ANS				
PROD. LIABILITY				<input type="checkbox"/> FINAL SOLUTION				
PROD. PLANNING				FOLLOW UP ON CORRECTIVE ACTION				
NFO								
FRD								
CONTRACT OPER.								
WARRANTY REPAIR								
CONSPICUOUS VENDOR								
COMP. SERVICES								
ORDER CENTER								
COMPONENT ENGR.								
	QTY	NAME	PART NO.	COMMENTS				

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

HOURS SPENT SOLUTION		
DEPT	MAN	HRS

9 of 14

PROBLEM REPORT FD-130 MAIL STR. NO. 808 IN COPY & PLANT	PROD. OF SYSTEM FILE NO. 11-312	FILE NO. (SEE)	DATE OF PROBLEM 12-20-69	FORM 11-312-10418
	LMO LMO ONLY			10418

11-312-10418
12-20-69
 11-312-10418
 10418

11-312-10418
12-20-69

<input type="checkbox"/> QUALITY CONTROL <input type="checkbox"/> DESIGN <input type="checkbox"/> MATERIALS <input type="checkbox"/> PROCESSING <input type="checkbox"/> PRODUCTIVITY <input type="checkbox"/> SAFETY <input type="checkbox"/> SERVICE	<input type="checkbox"/> QUALITY CONTROL <input type="checkbox"/> DESIGN <input type="checkbox"/> MATERIALS <input type="checkbox"/> PROCESSING <input type="checkbox"/> PRODUCTIVITY <input type="checkbox"/> SAFETY <input type="checkbox"/> SERVICE
<input type="checkbox"/> QUALITY CONTROL <input type="checkbox"/> DESIGN <input type="checkbox"/> MATERIALS <input type="checkbox"/> PROCESSING <input type="checkbox"/> PRODUCTIVITY <input type="checkbox"/> SAFETY <input type="checkbox"/> SERVICE	<input type="checkbox"/> QUALITY CONTROL <input type="checkbox"/> DESIGN <input type="checkbox"/> MATERIALS <input type="checkbox"/> PROCESSING <input type="checkbox"/> PRODUCTIVITY <input type="checkbox"/> SAFETY <input type="checkbox"/> SERVICE
<input type="checkbox"/> QUALITY CONTROL <input type="checkbox"/> DESIGN <input type="checkbox"/> MATERIALS <input type="checkbox"/> PROCESSING <input type="checkbox"/> PRODUCTIVITY <input type="checkbox"/> SAFETY <input type="checkbox"/> SERVICE	<input type="checkbox"/> QUALITY CONTROL <input type="checkbox"/> DESIGN <input type="checkbox"/> MATERIALS <input type="checkbox"/> PROCESSING <input type="checkbox"/> PRODUCTIVITY <input type="checkbox"/> SAFETY <input type="checkbox"/> SERVICE

11-312-10418

What placed in box for identification
the white bands that the unit came

FOR OTHER ATTITUDE	EFFECT ON SYSTEM (O/F/T/W)
<input type="checkbox"/> TOLERANCE <input type="checkbox"/> COMPLIANCE <input type="checkbox"/> CONFORMANCE <input type="checkbox"/> PERFORMANCE	<input type="checkbox"/> NO EFFECT <input type="checkbox"/> MINOR <input type="checkbox"/> MODERATE <input type="checkbox"/> MAJOR

11-312-10418

11-312-10418

COPIES <input type="checkbox"/> QUALITY ASSURANCE <input type="checkbox"/> PROD. LIABILITY <input type="checkbox"/> PROD. PLANNING <input type="checkbox"/> PRO <input type="checkbox"/> CONTRACTOR <input type="checkbox"/> WARRANTY REPAIR <input type="checkbox"/> CONSULTATION ENGR <input type="checkbox"/> CUM. SERVICE <input type="checkbox"/> DIST. CENTER <input type="checkbox"/> COMPONENT ENGR	PRELIMINARY AND FINAL RESOLUTION FOLLOW UP ON CORRECTIVE ACTION	SIGNATURE	DATE
	CITY NAME PART NO. COMMENTS		

10914

109129

PROBLEM REPORT

TO PRODUCT OFFICE

MANUFACTURE NO. 408

PLANT

TRUCK SYSTEM
S/N NO
1200

TRUCK ONLY

FILL NO
141

DATE OF ORDER IN
11/2/76

ORDER NO. 1200

TRUCK NO. 10412

AWB

2020162

2432 103

100 516

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White Fibre, Davis Best I
Supplies 1 Bus + Trk. Failure (820)

Run PCS 5-5-13.

With the current of 51 at 15 and 1/2
11/3/76 the bus + trk.

This indicates that the white is not
meeting the 10% recovery req.

ENTER ON SYSTEM *Not in file 5/13/76*

PROBLEM ACTION

1. Investigate

2. Repair

3. Replace

4. Other

5. No action

6. No report

7. No data

8. No test

9. No repair

10. No replace

11. No other

12. No no action

13. No no report

14. No no data

15. No no test

16. No no repair

17. No no replace

18. No no other

19. No no no action

20. No no no report

21. No no no data

22. No no no test

23. No no no repair

24. No no no replace

25. No no no other

26. No no no no action

27. No no no no report

28. No no no no data

29. No no no no test

30. No no no no repair

31. No no no no replace

32. No no no no other

33. No no no no no action

34. No no no no no report

35. No no no no no data

36. No no no no no test

37. No no no no no repair

38. No no no no no replace

39. No no no no no other

40. No no no no no no action

41. No no no no no no report

42. No no no no no no data

43. No no no no no no test

FORM 405 274

PLANNING CONDITIONS

EMERGENCY

ATMOSPHERE

TEMPERATURE

HUMIDITY

WIND

PRECIPITATION

NOISE

VIBRATION

SMELL

OTHER

PLANNING CONDITIONS

EMERGENCY

ATMOSPHERE

TEMPERATURE

HUMIDITY

WIND

PRECIPITATION

NOISE

VIBRATION

SMELL

OTHER

PLANNING CONDITIONS

EMERGENCY

ATMOSPHERE

TEMPERATURE

HUMIDITY

WIND

PRECIPITATION

NOISE

VIBRATION

SMELL

OTHER

PLANNING CONDITIONS

EMERGENCY

ATMOSPHERE

TEMPERATURE

HUMIDITY

WIND

11 of 14

PROBLEM REPORT

TO: PRODUCT SUPPORT

MAIL STA NO. 438

UNIT ORDER NO.

PRODUCT SYSTEM

UNIT ONLY

Toledo Edison, Davis-Bease I

UNITS, UNIT ONLY, AND TYPE OF SYSTEM PRODUCT

Signal Monitor Failure (820)

FILE NO.

DATE OF PROBLEM

10/23/76

3220 M

020 592 LJ

SIGNATURE

DATE CODE

EX 0412

D. E. Shaffer

MAIL STA NO. F.O. Box 6

Fort Clinton, Ohio

SERIAL NO. AND PART NO.

66-4812A

REVISION

DATE RECEIVED

SLIP

LABOR

MAINTENANCE

TESTING

REPAIR

REPLACEMENT

REWORK

REVISION

REWORK

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PROBLEM CATEGORY

CLASSIFICATION

EXCESSIVE

DEFECTIVE

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