

A-158

BRINEY EXHIBIT F
GPC EXH. II-158

DOCKETED
USNRC

Deficiency Card

PMK

20135

'95 SEP -8 P4:04

Card # 290-231 Unit 1 Unit 2 Common (Additional Sheets Attached? Yes No)

1: Description of Deficiency
DEMS
THE DEW POINT READINGS OBTAINED PER PM 2900432 ON D.G. AIR DRYER 2-2403-64-002-K01 WERE HIGHER THAN ALLOWED PER ACCEPTANCE CRITERIA. THE ACCEPTABLE RANGE IS BETWEEN 32 DEGREES F AND 50 DEGREES F. ACTUAL READING WAS GREATER THAN 74.8 DEGREES F. WRT #12866 WRITTEN.

Completed By Initiator

Location Of Deficiency? D.G. 2B

What is Affected By The Deficiency? Commitment 15423, 15068 AND 14831

How Was The Deficiency Discovered? DURING PERFORMANCE OF PM 2900432

Event Time 120000T Date 10-8-90 Discovery Time 073000T Date 10-10-90

Discovered By? *Tommy A. Lamb* Work # 2900432 Dept. I&C

2: Shift Supervisor Review
Name Of USS Reported To? W.L. BARGERON Time 1411 Date 10/10/90

Plant Mode/Condition: 6/38 CPS

Is Immediate Notification Required? Yes No
If Yes, 1 Hour, 4 Hour, or 24 Hour N/A Reported: Date Time

Tech. Spec. Required Action Taken? Yes No
List Applicable Tech. Spec. Section(s) N/A

Summarize Compensatory Action Taken: ENGINEERING TO EVALUATE/MAINT. TO INVESTIGATE AIR DRYER PM WRT 12866

LCO Initiated: Yes No # Type: Info N/A LCO Fire

WRT Initiated: Yes No # 12866

Signature Of USS WLB, - Date 10/10/90 Time 1413

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NUCLEAR REGULATORY COMMISSION

Docket No. 52-424 425-649-3 EXHIBIT NO. BPC-158
In the matter of *Bo Town / Vogtle*
 Staff Applicant Intervenor Other
 Identified Received Rejected Reporter *WLB*
Date 8-22-95 Witness *Briney*

9509120306 950822
PDR ADOCK 05000424
G PDR

3: Technical Support Review	
NSAC Evaluation/Review (Check Appropriate Box) Date Received: 10-11-90	
A. <input type="checkbox"/>	No Deficiency ^{ACCA} Case Required. Send Copy To Responsible Dept., Close Original
B. <input type="checkbox"/>	Reportable Deficiency. Report #
C. <input checked="" type="checkbox"/>	Deficiency, Not Reportable.
Explanation: The PM was satisfied with result of repairs to 64-22-16 and 151157-2P. The air dryers are in safe condition and no work is reportable per the 151157-2P Tech Spec.	
Responsible Dept.: Eng Support	
NSAC Reviewer: Tom Webb	Date: 10-11-90
NSAC Supervisor: R. Madan	Date: 10-11-90
4: Disposition, For Deficiencies in Item 3C Above Only. - USE AS IS -	
WRT # 12P66 initiated to determine problem with Air Dryer. MWO 2900 4839 was initially tested by I+C and found dew point high. MWO was turned over to electrical and dewpoint checked prior to performing work on the dryer. The dewpoint checked out within acceptance criteria.	
Cause Code: E1	Event Code: ZC (Attach Sheets From 00058-C)
Causing Dept(s):	
Department Manager: [Signature]	Date: 1/25/91

Completed in 1 Day

Completed in 1 Month By Responsible Dept.

DC # 2-40-231

ROOT CAUSE DETERMINATION WORKSHEET

UNIT 2

SHEET 1 OF 2

1. EVENT INVESTIGATED: Dewpoint readings taken per PM MWO 29004432 were 74.8 degrees. Acceptance Criteria is 32°F to 50°F.

2. EVALUATOR(S)/INVESTIGATOR(S): Ken Stokes

3. RESULTS OF INVESTIGATION/REVIEW (Include references and attach continuation sheets if needed)

a. CAUSE: The following summarizes the events that took place: ITC took initial dew point readings on 10-8-90 per DC 2511-1550 mwo 29004432 and readings were 74.8 degrees. They initiated another mwo 29004439 for corrective maintenance. ITC again took readings on 10-24-90 and dew point was 58.9°F. ITC then transferred the MWO to Electrical. They took dew point reading prior to performing any corrective maintenance. Dew point reading was 38.4°F, therefore they closed the MWO. (Cont)
ROOT CAUSE CATEGORY/EVENT CODE: E1 2011-11-20 2C

b. RECOMMENDED CORRECTIVE ACTION(S): Proper training should be given to a specific group of people and those people should take all dew point measurements. Also, The PM has been marked-up to provide additional guidance to test personnel in the event dew point is found out of acceptance criteria.

CHECKLIST REVISED 11/13/90

c. ACTIONS TO PREVENT RECURRENCE: (Complete if not included in b above)
SEE B ABOVE

Resp. Dept. Mgr. Approval: [Signature] DATE: 1/25/91
 Estimated Completion Date: COMPLETE 1/25/91 OIT Number: 210-40-1/28/91
Ken Stokes 111-1340 Sgt. AS Resp. Dept. Mgr.
 INVESTIGATOR SIGNATURE DATE RESPONSIBLE MANAGER/ERTL DATE

4. OITs initiated; commitments reviewed; corrective action approved.
[Signature] 11-30-91
 MANAGER TECHNICAL SUPPORT DATE
oct 1/29/91

DC # 2-90-231

SM 2 of 2

CONTINUATION SHEET

a. CAUSE: This dryer was removed from service during a switchgear outage on clearance 29015214 on 10/23/90. The 2nd dew point reading taken on 10/24/90 was probably just after the dryer was placed back in service and a higher dew point would be expected for several cycles of the Air Compressor. Following these cycles, electrical measured dew point on 10-26-90 and found acceptable. (Cont.)

ROOT CAUSE CATEGORY/EVENT CODE: E1 / 2C

b. RECOMMENDED CORRECTIVE ACTION(s):

N/A

c. ACTIONS TO PREVENT RECURRENCE: (Complete if not included in b above)

N/A

Resp. Dept. Mgr. Approval: _____

DATE: _____

Estimated Completion Date: _____

OIT Number: _____

a. CAUSE: Subsequent readings were taken per Pm mwd 29005015 and found to be acceptable. It can be concluded that original readings were either improperly taken or the dew point analyzer wasn't working. Since no maintenance has been performed on the analyzer, one can say the original readings were taken improperly.

ROOT CAUSE CATEGORY/EVENT CODE: 1

b. RECOMMENDED CORRECTIVE ACTION(s): Proper training should be given to

N/A

c. ACTIONS TO PREVENT RECURRENCE: (Complete if not included in b above)

N/A

Resp. Dept. Mgr. Approval: _____

DATE: _____

Estimated Completion Date: _____

OIT Number: _____

PLANNED MAINTENANCE CHANGE REQUEST

1. LOG NUMBER _____

2. [] MAJOR MINOR

3. CHECKLIST NUMBER SCL00166 REV. 02

4. DESCRIPTION OF CHANGE See Attached Mark-Up.

5. REASON FOR CHANGE It is presently unclear as to what action to take when dew point is found out of Acceptance Criteria. Writing a D.C. does not benefit the situation. If these actions are taken as stated on these additional steps, Dew Point within the Control Air system at 60 PSI can be maintained in an acceptable condition. Through previous conversations with Cooper Energy Services, air moisture quality is acceptable as long as no water is found in the Control Air System.

6. SUBMITTED BY Ken Stokes Ken Stokes 11/19/90

7. MAINTENANCE/WPG SUPV. OR MAINT. ENGINEER _____
TECHNICAL REVIEW 1/1

8. PM COORDINATOR _____
APPROVAL 1/1

9. MAINT. ENGR. _____
APPROVAL 1/1

10. MAINTENANCE MANAGER/SUPERINTENDENT _____
APPROVAL 1/1

11. IMPACT REVIEW _____ WPG NOTIFIED _____

12. PM COMPUTER DATA BASE REVISED _____ 1/1

COMMENTS _____

EQUIPMENT MAINTENANCE CHECKLIST

MWO-NUMBER	CHECKLIST	CLASS	FREQUENCY	PAGE
	SCL00166	C	N/A	1 OF 2
TAG NUMBER	REFERENCE MATERIAL			

MAINTENANCE REQUIREMENTS AND SPECIAL INSTRUCTIONS	SKILL AND INITIALS
<p>DIESEL GENERATOR AIR START DRYER MAINTENANCE (COMMITMENT 15423, 15068 AND 14831)</p>	
<p>CLEAN CONDENSING UNIT (IEN: 87-028)</p>	
<p>1. STOP FAN MOTOR.</p>	<p>____/____</p>
<p>2. CLEAN CONDENSING UNIT.</p>	<p>____/____</p>
<p>NOTE COMPRESSED AIR OR A VACUUM CLEANER MAY BE USED TO CLEAN THE CONDENSING UNIT.</p>	
<p>3. START FAN MOTOR.</p>	<p>____/____</p>
<p>. MEASURE DEW POINT AND RECORD IN BLOCK 27 OF MWO.</p>	<p>____/____</p>
<p>A. USE EG & G HUMIDITY ANALYZER.</p>	
<p>NOTE WHEN OVERHEAD FAN AND/OR AIR COMPRESSOR RUNS THE DEW POINT READING WILL CHANGE SLIGHTLY. IF READINGS ARE AFFECTED BY OVERHEAD FAN, HAVE OPERATIONS STOP FAN DURING TEST.</p>	
<p>B. USE EG & G INSTRUCTION MANUAL FOR OPERATION OF EQUIPMENT VM-494</p>	
<p>C. CONNECT EG & G TO AIR START RECEIVER PRESSURE GAUGE.</p>	
<p>MAINTENANCE ENGINEER/SUPV. APPROVAL H R VAUGHT LAST MINOR CHANGE DATE 00/00/00</p>	<p>REV. 02 06/11/90</p>

EQUIPMENT MAINTENANCE CHECKLIST CONTINUATION

TWO-NUMBER	CHECKLIST SCL00166	CLASS C	FREQUENCY N/A	PAGE 2 OF 2
TAG NUMBER	REFERENCE MATERIAL			

MAINTENANCE REQUIREMENTS AND
SPECIAL INSTRUCTIONSSKILL AND
INITIALS

D. SECTIONS 3.1.2, 3.2 AND 5.1 ARE USED TO OBTAIN DEW POINT READINGS.

NOTE

ALLOW APPROXIMATELY 30 TO 40 MINUTES FOR READING TO STABILIZE.

NOTE

ACCEPTABLE READING ARE BETWEEN 32 DEGREES FAHRENHEIT AND 50 DEGREES FAHRENHEIT.

E. IF DEW POINT IS NOT WITHIN ACCEPTANCE CRITERIA PERFORM THE FOLLOWING:

- a.) Notify System Engineer.
- b.) Initiate corrective action MWO, if required.
- c.) Notify Operations and request Air Dryer and Air Compressor to be tagged out. Inform S.S. of corrective Action MWO Number and request priority.

NOTE

AIR RECEIVER OUTLET VALVE SHOULD NOT BE ISOLATED UNLESS MOISTURE IS NOTICED WITHIN THE CONTROL AIR SYSTEM. THIS SHOULD BE CHECKED BY OPENING FOR A FEW SECONDS TEST CONNECTION VALVE IN LOWER LEFT PART THE ENGINE CONTROL PANEL. THIS MOISTURE CHECK SHOULD BE PERFORMED EVERY 12 hours UNTIL DEW POINT IS ACCEPTABLE.

REV. 02

NOTE

A D.C. IS NOT REQUIRED IF DEW POINT IS OUT OF ACCEPTANCE CRITERIA SINCE CORRECTIVE ACTION IS BEING PERFORMED BY STEP B ABOVE.

EQUIPMENT MAINTENANCE CHECKLIST

MWO-NUMBER 19004870	CHECKLIST SCL00166	CLASS C	FREQUENCY 001-MO	PAGE 1 OF 3
TAG NUMBER 12403G4002K02	REFERENCE MATERIAL			

MAINTENANCE REQUIREMENTS AND SPECIAL INSTRUCTIONS	SKILL AND INITIALS
<p>DIESEL GENERATOR AIR START DRYER MAINTENANCE (COMMITMENT 15423, 15068 AND 14831)</p>	
<p>CLEAN CONDENSING UNIT (IEN: 87-028)</p>	
<p>1. STOP FAN MOTOR.</p>	<p><u>FLC / PIC</u></p>
<p>2. CLEAN CONDENSING UNIT.</p>	<p><u>FLC / PIC</u></p>
<p style="text-align: center;">NOTE</p> <p>COMPRESSED AIR OR A VACUUM CLEANER MAY BE USED TO CLEAN THE CONDENSING UNIT.</p>	
<p>3. START FAN MOTOR.</p>	<p><u>FLC / PIC</u></p>
<p>MEASURE DEW POINT AND RECORD IN BLOCK 27 OF MWO.</p>	<p><u>FLC / PIC</u></p>
<p>A. USE EG & G HUMIDITY ANALYZER.</p>	
<p style="text-align: center;">NOTE</p> <p>WHEN OVERHEAD FAN AND/OR AIR COMPRESSOR RUNS THE DEW POINT READING WILL CHANGE SLIGHTLY. IF READINGS ARE AFFECTED BY OVERHEAD FAN, HAVE OPERATIONS STOP FAN DURING TEST.</p>	
<p>B. USE EG & G INSTRUCTION MANUAL FOR OPERATION OF EQUIPMENT. VM-494</p>	
<p>MAINTENANCE ENGINEER/SUPV. APPROVAL H R VAUGHT LAST MINOR CHANGE DATE 00/00/00</p>	<p>REV. 03 11/13/90</p>

WORKING COPY

CONTROLLED REVISION	SIGNATURE	DATE
	<u>PIC</u>	<u>12-31-90</u>

R0000

EQUIPMENT MAINTENANCE CHECKLIST CONTINUATION

MWO-NUMBER 19004870	CHECKLIST SCL00166	CLASS C	FREQUENCY 001-MO	PAGE 2 OF 3
TAC NUMBER 12403G4002K02	REFERENCE MATERIAL			

MAINTENANCE REQUIREMENTS AND SPECIAL INSTRUCTIONS	SKILL AND INITIALS
<p>C. CONNECT EG & G TO AIR START RECEIVER PRESSURE GAUGE.</p> <p>D. SECTIONS 3.1.2, 3.2 AND 5.1 ARE USED TO OBTAIN DEW POINT READINGS.</p> <p style="text-align: center;">NOTE</p> <p>ALLOW APPROXIMATELY 30 TO 40 MINUTES FOR READING TO STABILIZE.</p> <p style="text-align: center;">NOTE</p> <p>ACCEPTABLE READING ARE BETWEEN 32 DEGREES FAHRENHEIT AND 50 DEGREES FAHRENHEIT.</p> <p>E. IF DEW POINT IS NOT WITHIN ACCEPTANCE CRITERIA PERFORM THE FOLLOWING:</p> <p>A.) NOTIFY SYSTEM ENGINEER.</p> <p>B.) INITIATE CORRECTIVE ACTION MWO, IF REQUIRED.</p> <p>C.) NOTIFY OPERATIONS AND REQUEST AIR DRYER AND AIR COMPRESSOR TO BE TAGGED OUT. INFORM S.S. OF CORRECTIVE ACTION MWO NUMBER AND REQUEST PRIORITY.</p>	<p style="text-align: right; font-size: 2em;"><i>Added</i></p>
	REV. 03

EQUIPMENT MAINTENANCE CHECKLIST CONTINUATION

MWO-NUMBER 19004870	CHECKLIST SCL00166	CLASS C	FREQUENCY 001-MO	PAGE 3 OF 3
TAG NUMBER 2403G4002K02	REFERENCE MATERIAL			

MAINTENANCE REQUIREMENTS AND SPECIAL INSTRUCTIONS	SKILL AND INITIALS
<p style="text-align: center;">NOTE</p> <p>AIR RECEIVER OUTLET VALVE SHOULD NOT BE ISOLATED UNLESS MOISTURE IS NOTICED WITHIN THE CONTROL AIR SYSTEM. THIS SHOULD BE CHECKED BY OPENING FOR A FEW SECONDS TEST CONNECTION VALVE IN LOWER LEFT PART OF THE ENGINE CONTROL PANEL. THIS MOISTURE CHECK SHOULD BE PERFORMED EVERY 12 HOURS UNTIL DEW POINT IS ACCEPTABLE.</p> <p style="text-align: center;">NOTE</p> <p>A D.C. IS NOT REQUIRED IF DEW POINT IS OUT OF ACCEPTANCE CRITERIA SINCE CORRECTIVE ACTION IS BEING PERFORMED BY STEP ABOVE.</p> <p style="text-align: right; font-style: italic; font-size: 2em;">Added</p>	
	REV. 03

Deficiency Card

020472

Card # 19042

Unit 1 Unit 2 Common

1: Description of Deficiency

(Additional Sheets Attached? Yes No)

1-2403-64-002-K02

DEW POINT READINGS WERE TOO HIGH (ABOVE TOLERANCE 60.2°F ; 70.8°F)

Completed By Initiator

Location Of Deficiency?

DIESEL BUILDING WAIT I B TRAIN K02

What is Affected By The Deficiency?

DRYING AIR TO 11-15-90 COMPRESSOR & DRYER

How Was The Deficiency Discovered?

BY CHECKING DEW POINT READING WITH VP 1296 DUE DATE 8-17-91 REF: PM SCL00166

Event Time 0900 CST

Date 11-15-90

Discovery Time 1000 CST

Date 11-15-90

Discovered By?

Buddy Berry

Work # 19004394

Dept. I+C

2: Shift Supervisor Review

Name Of USS Reported To?

WP Stephens JR Time 1418

Date 11/15/90

Plant Mode/Condition:

MODE 1 / 100% RTP

Is Immediate Notification Required? Yes No

If Yes, 1 Hour, 4 Hour, or 24 Hour

NA

Reported: Date

NA

Time

NA

Tech. Spec. Required Action Taken? Yes No

N/A

List Applicable Tech. Spec. Section(s)

3.8.1.1

Summarize Compensatory Action Taken:

LCO Initiated: Yes No #

Type: Info 14073TI LCO

Fire

WRT Initiated: Yes No #

Signature Of USS

WP Stephens JR

Date 11/15/90

Time 1420

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3: Technical Support Review	
NSAC Evaluation/Review (Check Appropriate Box) Date Received: 11-16-90	
A. <input checked="" type="checkbox"/>	No Deficiency Card Required. Send Copy To Responsible Dept., Close Original
B. <input type="checkbox"/>	Reportable Deficiency. Report #
C. <input type="checkbox"/>	Deficiency. Not Reportable.
Completed in 1 Day	Explanation: Another DC (DC 1-90-409) has already been issued to document the fact that the dew point for air receiver 1-2403-64-002-K02 is too high. As noted on the previous DC, the problem is being investigated per MWO 19004394 and LCO 1-90-737I has been initiated. If any action, other than corrective maintenance action is required, then such action will be noted by the Engineering disposition of DC 1-90-408.
	Responsible Dept.: Eng. Support
	NSAC Reviewer: W. K. Lamb Date: 11-16-90
	NSAC Supervisor: R. M. O. Date: 11-16-90
4: Disposition, For Deficiencies in Item 3C Above Only.	
Completed in 1 Month By Responsible Dept.	N/A
Cause Code:	Event Code: (Attach Sheets From 00058-C)
Causing Dept(s):	
Department Manager:	Date:

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