

I-MOSBA-169

DEMONSTRATIVE AID #4 (rev. 7-13-95)

DOCKETED

USNRC

DEW POINT DATA* -- DIESEL AIR SYSTEM

'95 JUL 27 P4:37

DIESEL 1AOFFICE OF SECRETARY
DOCKETING & SERVICE
BRANCH

DATE**	MWO	DEW POINT DEGREES F	INSTRUMENT	COMMENTS
1-20-89	1-88-09080	27.3,	VP-1114 (CDD 5-2-89)	
7-13-88	1-88-02991			Air temp high alarm in but delta T only 1 F for both dryers. Replaced consenser fan motor.
thru				Replaced Compressor, Bypassed Fan relay switch, Filled unit with Freon
2-10-89				Installed new Fan cut out switch
2-12-89	1-88-02991	43.9,	VP-1114 (CDD 5-2-89)	Air temp. high alarm still in for dryer K02
3-1-89	1-89-01008	, 78		Compressor not coming on automatically, fan in a bind.
3-3-89	1-89-01008	, 70		Compressor Freon was discharged and then recharged. Purged receiver
3-13-89	1-89-01008	, 53.9		After additional receiver purges.
3-16-89	1-89-00984	22.6, 20.1	VP-1114 (CDD 5-2-89)	
5-18-89	1-89-01066	39, 78	VP-2466 (CDD 4-4-89)	MWO 1-89-02188 written to correct problem with K02
6-21-89	1-89-02453	48,	VP-2722 (CDD 9-2-89)	K02 dryer will be replaced under MWO 1-89-02188
7-07-89	1-89-02188	, 48	VP-2721 (CDD 9-2-89)	
7-30-89	1-89-02798	43, 39	VP-2722 (CDD 9-2-89)	
8-24-89	1-89-03214	37, 35	VP-2721 (CDD 9-2-89)	
9-27-89	1-89-03652	44.5, 45	VP-2466 (CDD 3-7-90)	
10-20-89	1-89-04442	38, 45	VP-2466 (CDD 3-7-90)	
11-20-89	1-89-05007	40, 47	VP-2466 (CDD 3-7-90)	
12-20-89	1-89-06199	40, 37	VP-2466 (CDD 3-7-90)	
1-18-90	1-89-06445	44, 44	VP-2466 (CDD 3-7-90) VP-2710 (CDD 3-6-90)	
2-11-90	1-90-00465	37, 37	VP-2466 (CDD 3-7-90)	
3-9-90	1-90-00899	61, 66		As left Dew Point was out of spec.
3-12-90	1-90-00899	48, 45		
3-29-90	1-90-01513	80, 60	VP-2466 (CDD 4-7-90)	DC written but rejected by SS who said to write MWO.

9508150382 950718
PDR AD0CK 05000424
Q PDR

NUCLEAR REGULATORY COMMISSION
EXHIBIT NO. II-169
Docket No. 50-424/425-OLA-3
In the matter of Georgia Power Co. et al., Vogtle Units 1 & 2 STIPULATION
☐ Staff ☐ Applicant ☒ Intervenor ☐ Other
☒ Identified ☒ Received ☐ Rejected ☐ Reporter KHL
 Date 7/18/95 Witness Masbong

4-5-90	1-90-01651	86, 67 78, 77 83, 85	VP-2466 (CDD 4-7-90) VP-2466 (CDD 4-7-90) VP-2466 (CDD 4-7-90)
4-6-90	1-90-01651	85, 85 85, 85 80, 70 80, 75,	VP-2466 (CDD 4-7-90) VP-2466 (CDD 4-7-90) VP-2466 (CDD 4-7-90) VP-2466 (CDD 4-7-90) VP-1114 (CDD 8-3-90)
4-7-90	1-90-01651	75, 80 15, 33 75, 78	VP-2466 (CDD 4-7-90) GE Rental VP-1114 (CDD 8-3-90)
4-8-90	1-90-01651	34.2, 33.2 40.3, 42.3 35.5, 34 39.2, 42.8	VP-1114 (CDD 8-3-90) FS-3529 Borrowed Inst. VP-1114 (CDD 8-3-90) FS-3529 Borrowed Inst.
4-11-90	1-90-01651	41.3, 36.2 38.5, 35.8	FS3529 Borrowed Inst.
5-9-90	1-90-02393		
5-14-90	1-90-02137	41, 43	VP-2721 (CDD 4-10-91)
6-6-90	1-90-02652	12.9, 10.6 34.6, 41.4	VP-1114 (CDD 8-3-90) VP-1114 (CDD 8-3-90)
7-3-90	1-90-03060	47.5, 38.3	VP-1114 (CDD 8-3-90)
8-10-90	1-90-03369	43.1, 35.4	VP-1114 (CDD 9-3-90)
8-25-90	1-90-03699	35.7, 37.8	
9-27-90	1-90-03937	41.5, 38.8	VP-1296 (CDD 8-17-91)
10-22-90	1-90-04162	37.7, 33.1	VP-1296 (CDD 8-17-91)
11-20-90	1-90-04399	39.9, 36.4	VP-1296 (CDD 8-17-91)
12-21-90	1-90-04666	38.5, 35.6	

*** 4-5-90, 18:45-- Diesel Generator 1A reservoir venting and charging until dewpoint comes into spec. continuing.

K02 receiver had been bled by mechanics to inspect vessel

FS3529 has no official site calibration, not allowed to be used to verify acceptance criteria

Air Pressure bleeding off
Auto drain trap leaking by

Sample taken at new point

KEY: Dew points: Dryer K01 (left), Dryer K02 (right)

Bold Dew Point = Out of Specification

CDD = Calibration Due Date

Maximum Allowable Dew Point is 50 F

Minimum Theoretical Value is 32 F

* Data from GPC MWO's & MWO Listing

** Date from GPC MWO's & MWO Listing (Technician initials, dates from work performed block of MWO)

*** Data from Exhibit # 80, "War Room Unit 1 Refueling Outage Log , project page 064035

MWO = Maintenance Work Order

DEW POINT DATA* -- DIESEL AIR SYSTEM

DIESEL 1B

<u>DATE</u>	<u>MWO</u>	<u>DEW POINT DEGREES F</u>	<u>INSTRUMENT</u>	<u>COMMENTS</u>
1-12-89	1-88-08981	28.7, 27.3	VP-1114 (CDD 4-29-89)	
2-24-89	1-89-00822	19, 19.1	VP-1114 (CDD 4-29-89)	Previous dew points <32F are incorrect
3-1-89	1-89-00988	45.6, 33.8	VP-1114 (CDD 4-29-89)	
3-8-89	1-89-01066	-2, -12	VP-2466 (CDD 4-4-89)	
3-22-89	1-89-01066	-15, -27	VP-2466 (CDD 4-4-89)	
5-17-89	1-89-01066	47, 45	VP-2466 (CDD 4-4-89)	
6-21-89	1-89-02459	48, 45	VP-2722(CDD 9-2-89)	
7-28-89	1-89-02800	47, 37	VP-2722(CDD 9-2-89)	
8-16-89	1-89-03217	38, 41		
8-22-89	1-89-03314	45, 42	VP-2721(CDD 9-2-89)	
9-27-89	1-89-03656	47, 45	VP-2466(CDD 3-7-90)	
10-20-89	1-89-04446	41, 44	VP-2466(CDD 3-7-90)	
11-13-89	1-89-05009	38, 32	VP-2466(CDD 3-7-90)	
12-18-89	1-89-06200	37, 33	VP-2466(CDD 3-7-90)	
1-8-90	1-89-06446	32, 32		
2-11-90	1-90-00466	37, 37		
3-9-90	1-90-00900	45, 47		Dryer 2 out of service, could not be tested due to equip. clearance. Dryer 2 tested 3-12-90
3-29-90	1-90-01514	37, 34	VP-2466(CDD 4-7-90)	
4-5-90	1-90-01770	84, 82	VP-2466(CDD 4-7-90)	DC 1-90-186 written WRT# 08885 written
4-7-90	1-90-01770	85, 75 18, 18 80, 82	VP-2466(CDD 4-7-90) GE Rental VP-1114 (CDD 8-3-90)	

4-8-90	1-90-01770	44.5, 36.6 45.9, 40.8	VP-1114 (CDD 8-3-90) FS3529	FS3529 has no official site calibration, not allowed to be used to verify acceptance criteria
4-9-90	1-90-01788			Void, Instrument Out of calibration
4-10-90	1-90-01770	42.5, 41.4		
5-10-90	1-90-02391			Air Pressure bleeding off Auto drain trap leaking by Reworked, MER
5-12-90	1-90-02138	43, 43	VP-2721 (CDD 4-10-91)	
6-22-90	1-90-02901	80.2 , 44.2	VP-1114 (CDD 8-3-90)	Dryer K01 found not running
7-21-90	1-90-03216	43.9, 41.5	VP-1114 (CDD 8-3-90)	
8-14-90	1-90-03585	32.2, 32.7	VP-1114 (CDD 9-3-90)	
9-12-90	1-90-03807	46.6, 41.5	VP-1296 (CDD 8-17-91)	
10-8-90	1-90-04043	43.5, 46.8		
11-9-90	1-90-04257	43.2, 60 40.6 64.4	VP-1296 (CDD 8-17-91) VP-1296 (CDD 8-17-91) VP-1296 (CDD 8-17-91)	K02 fan motor not running, Hold Tag on System Dewpoint drifted up. Found MWO 1-90-04394 written against dryer, dryer inoperable
11-7-90	1-90-04394			Installed new fan motor, new compressor, new fan switch, and recharged freon. Receiver lowdown: initiated.
11-15-90	1-90-04394	60.2 70.8	VP-1296 (CDD 8-17-91) VP-1296 (CDD 8-17-91)	
11-23-90	1-90-04394	46.9	VP-1296 (CDD 8-17-91)	After additional receiver blowdowns
11-26-90	1-90-04515	48.2, 44.9		
12-31-90	1-90-04870	42.6, 40.2	VP-1296 (CDD 8-17-91)	

KEY: Dew points: Dryer K01 (left), Dryer K02 (right)
Bold Dew Point = Out of Specification
CDD = Calibration Due Date

Maximum Allowable Dew Point is 50 F

Minimum Theoretical Value is 32 F

* Data from GPC MWO's & MWO Listing

** Date from GPC MWO's & MWO Listing (Technician
initials, dates from work performed block of MWO)

MWO = Maintenance Work Order

DEW POINT DATA* -- DIESEL AIR SYSTEM

DIESEL 2A

DATE**	MWO	DEW POINT DEGREES F	INSTRUMENT	COMMENTS
3-13-89	2-89-01855	45.4, 47.7	VP-1114 (CDD 5-2-89)	
4-17-89	2-89-02500	50.2, 50.8	VP-1114 (CDD 5-2-89)	
6-21-89	2-89-03859	-13.5, -11.5	VP-2722 (CDD 8-2-89)	Values voided 2-89-04592
7-13-89	2-89-04220	35, 48	VP-2722 (CDD 9-2-89)	
8-1-89	2-89-04592	49, 48	VP-2722 (CDD 9-2-89)	
8-10-89	2-89-04564	40, 40	VP-2722 (CDD 9-2-89)	
9-23-89	2-89-04986	43, 47		
10-20-89	2-89-05436	46, 49	VP-2466	
11-19-89	2-89-05887	33, 33	VP-2466 (CDD 3-7-90)	
12-5-89	2-89-06178			Dryers short cycling, Found Supply breaker tripped, Unit continued tripping on high temp Cooling fan not operating, replaced
12-19-89	2-89-06450	42, 42	VP-2466 (CDD 3-7-90)	
1-22-90	2-89-06680	15, 16	VP-2624 (CDD 3-21-90)	Noted Out Of Spec., took readings on freon side of dryer delta T only 1-2 F, delta P low
1-25-90	2-89-06680	42, 44	VP-2466 (CDD 3-7-90)	
2-17-90	2-90-00361	49, 44	VP-2466 (CDD 3-7-90)	
3-2-90	2-90-00282			Compression unit has excessive noise and vibration, fan discovered installed backwards, corrected 3-2-91
3-15-90	2-90-00666	32, 35		
4-7-90	2-90-00964	85, 95 30, 30 82, 85	VP-2466 (CDD 4-7-90) GE Rental VP-1114 (CDD 8-3-90)	
4-8-90	2-90-00964	39.7, 61.4 43.9, 60.9	FS-3529 Borrowed Inst. VP-1114 (CDD 8-3-90)	
4-9-90	2-90-00964	61.6 49.6	VP-1114 (CDD 8-3-90) FS-3529	No site Cal.

4-10-90	2-90-00964	69.8, 64.1 61.5, 50.9	VP-1114 (CDD 8-3-90) FS-3529	No Site Cal.
4-11-90	2-90-00964	57.4, 62.6 57.2, 54.1	VP-1114 (CDD 8-3-90) FS-3529	K01- dew point was taken after Ops. bled pressure on associated receiver tank and allowed compressor to run (approx 2 hrs.) No Site Cal. on FS-3529
4-9-90	2-90-01035			High air temp alarm for both 2A air dryers. MWO voided 4-9-90.
4-12-90	2-90-01139			Air dryer does not appear to be working properly. Acceptable readings obtained 4-14-90. MWO voided 4-20-90
4-14-90	2-90-00964	43.8, 47.3	VP-1114 (CDD 8-3-90)	
5-12-90	2-90-01299	45, 43	VP-2721 (CDD 4-10-91)	
6-7-90	2-90-01786	40.5, 44.3	VP-1114 (CDD 8-3-90)	
7-3-90	2-90-02503	46.2, 37.3	VP-1114 (CDD 8-3-90)	
8-10-90	2-90-03203	35.7, 64.5 (not logged)	VP-1114 (CDD 8-3-90) VP-1114 (CDD 8-3-90)	Initiated receiver blowdown Recheck failed, WRT 10413
8-25-90	2-90-03648	38.9, 41.1	EG&G	
10-4-90	2-90-04070	74.1, 84.3		Receiver blowdown initiated
10-5-90	2-90-04070	48.1, 48.7		
10-22-90	2-90-04858	46.1, 46.9	VP-1296 (CDD 8-17-91)	
11-20-90	2-90-05297	48.5, 46.6	VP-1296 (CDD 8-17-91)	
12-21-90	2-90-05671	Not Provided	Not provided	

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** Date from GPC MWO's & MWO Listing (Technician initials, dates from work performed block of MWO)

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DEW POINT DATA* -- DIESEL AIR SYSTEM

DIESEL 2B

DATE**	MWO	DEW POINT DEGREES F	INSTRUMENT	COMMENTS
3-14-89	2-89-01655	45.4, 47.7	VP-1114 (CDD 5-2-89)	
3-16-89	2-89-02080	40, 43.2	VP-1114 (CDD 5-2-89)	
6-20-89	2-89-03858	35, 36	VP-2722 (CDD 9-2-89)	Fans in auto, not running
7-18-89	2-89-04219	44, 42		
8-22-89	2-89-04560	38, 40	VP-2722 (CDD 9-2-89)	
9-23-89	2-89-04984	45, 45		
10-20-89	2-89-05435	41, 44	VP-2466	
11-17-89	2-89-05790	34, 38	VP-2466 (CDD 3-7-90)	Initial reading was 17 DC-2-89-1502
12-06-89	2-89-06193	35, 50	VP-2466 (CDD 3-7-90)	Initial readings of 7, 19 had been improperly converted
01-03-90	2-89-06585	44, 47	VP-2466 (CDD 3-7-90) VP-2623 (CDD 3-6-90)	
02-02-90	2-90-00145	45, 45		
03-02-90	2-90-00560	34, 36	VP-2466 (CDD 3-7-90)	
04-02-90	2-90-00813	41, 44		
04-07-90	2-90-01021	75, 80 -10, 10 85, 80	VP-2466 (CDD 4-7-90) GE Rental VP-1114 (CDD 8-3-90)	
4-8-90	2-90-01021	39.5, 44.6 33.7, 44.4	FS-3529 Borrowed Inst. VP-1114 (CDD 8-3-90)	FS3529 has no official site calibration.
4-10-90	2-90-01021	39.0, 43.2 36.3, 40.3	VP-1114 (CDD 8-3-90) FS-3529 Borrowed Inst.	
5-14-90	2-90-01196	43, 45	VP-2721 (CDD 4-10-91)	
6-22-90	2-90-02193	32.7, 34	VP-1114 (CDD 8-3-90)	
7-21-90	2-90-02891	42.2, 49.5	VP-1114 (CDD 8-3-90)	

8-14-90	2-90-03446	40.2, 44.3	VP-1114 (CDD 9-3-90)	
9-12-90	2-90-03866	42.6, 47.8	VP-1296 (CDD 8-17-91)	
10-7-90	2-90-04432	74.8 , 43.7 78.4 ,	VP-1296 (CDD 8-17-91) VP-1296 (CDD 8-17-91)	Receiver blowdown init.
10-11-90	2-90-04432	78 ,	VP-1296 (CDD 8-17-91)	Drained 1 gallon water from dryer Wrote DC-2-90-231
10-24-90	2-90-04839	58.9 , 38.4,	VP-1296 (CDD 8-17-91) VP-1296 (CDD 8-17-91)	10-26-90
11-05-90	2-90-05015	48, 49.5	VP-1296 (CDD 8-17-91)	
12-04-90	2-90-05441	49.8, 44.5	VP-1296 (CDD 8-17-91)	Informed SE DP close to limit, no action taken
12-31-90	2-90-05798	42, 45.1	VP-1296 (CDD 8-17-91)	

KEY: Dew points: Dryer K01 (left), Dryer K02 (right)

Bold Dew Point = Out of Specification

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Maximum Allowable Dew Point is 50°F

Minimum Theoretical Value is 32 F

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