

CONFIDENTIAL

NECTAR (U)

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411450

DELETED

Date 19 MAY 1954 Time 0558 L Clouds lower 3/8 cu/sc

Clouds lower 3/8 cu/sc Base 2000 Tops 4000 Middle 6/8 Base approx 2000

10/10 CS (Sky Generally chaotic appearance) Visibility 10 Miles

Sea Level Pressure 1006.4 Mb Wind direction 090 degrees Velocity 17 Kts

Surface temp 80 °F Dew Point 75 °F Humidity 85 % Vapor pressure .865

Local weather cloudy with showers Remarks ScTD SHOWERS

Latest winds aloft taken on FM 1550 Position IS Time 0600 M

ALTITUDE	DEGREES	KNOTS	PRESSURE	TEMP	DEW POINT	ALTITUDE	HUMIDITY
Surface	090	19	1006	25.9 °C	24.7 °C	93	1.159
1,000 Ft	090	21	968	24.5	22.7	90	1.121
1,500	100	20	953	23.6	22.0	91	1.082
2,000	100	17	937	22.7	21.1	91	1.043
3,000	110	19	905	21.0	19.6	92	1.003
4,000	110	19	874	19.9	17.9	92	1.003
5,000	110	15	843	17.3	16.2	93	1.003
6,000	110	14	813	16.6	15.5	93	1.003
7,000	100	12	785	13.8	12.8	94	1.003
8,000	100	10	757	10.6	08.3	85	1.003
9,000	110	11	730	10.5	06.3	75	1.003
10,000	110	14	704	9.3	05.5	77	1.003
12,000	120	17	653	7.4	02.6	82	1.003
14,000	110	15	606	3.1	00.5	83	1.003
16,000	130	16	562	-0.5	-2.8	84	1.003
18,000	140	12	522	-4.1	-12.9	50	1.003
20,000	190	14	488	-5.8	-18.8	35	1.003
25,000	190	06	395	-15.0	MB	MB	1.003
30,000	250	17					1.003
35,000	210	09					1.003
40,000	210	24					1.003
45,000	230	32					1.003
50,000	280	35					1.003
55,000	51000 290	38					1.003
60,000							1.003
65,000							1.003
70,000							1.003
75,000							1.003
80,000							1.003
85,000							1.003
90,000							1.003
95,000							1.003
100,000							1.003

Sanitized by NN-523 on 2/5/98

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DEPARTMENT OF ENERGY DECLASSIFICATION REVIEW	
1ST REVIEW DATE: <u>27-10-97</u>	DETERMINATION (CIRCLE NUMBER) <u>1</u>
AUTHORITY: <u>EAAC, DC, EADD</u>	2. CLASSIFICATION CHANGED TO: <u>CONFIDENTIAL</u>
NAME: <u>D. Barnes</u>	3. COORDINATE WITH: <u>CONFIDENTIAL</u>
2ND REVIEW DATE: <u>1/2/97</u>	4. CLASSIFICATION CANCELED
AUTHORITY: <u>ADD</u>	5. DECLASSIFIED INFO BRACKETED
NAME: <u>Richard Smith</u>	6. DATES (SPECIFY): <u>4 pages</u>

BEST COPY AVAILABLE 0039

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NECTAR(U)

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Date 14 MAY 1954 Time 0558 L ~~Local time~~ Time ~~_____~~

Clouds lower 3/8 cu/sc Base 2000 Tops 4000 Middle 6/8 Base approx 12000

10/10 CS (Sky generally clear's appearance)
~~Clouds~~ Visibility 10 Miles

Sea Level Pressure 1006.4 Mb Wind direction 090 degrees Velocity 17 Kts

Surface temp 80 °F Dew Point 75 °F Humidity 85 % Vapor pressure 865

Local weather cloudy with SWS Remarks ScTD SHOWERS

Latest winds aloft taken on 5000 IS Position _____ Time 0600 M

ALTITUDE	DEGREES	KNOTS	PRESSURE	TEMP	DEW POINT	ALTITUDE	HUMIDITY
Surface	600	19	1006	25.9 °C	24.7 °C	93	1.15
1,000 Ft	610	21	968	24.5	22.7	90	1.12
1,500	100	20	953	23.6	22.0	91	1.08
2,000	100	17	937	22.7	21.1	91	1.04
3,000	110	17	905	21.0	19.6	92	1.06
4,000	110	19	874	19.9	17.9	92	1.03
5,000	110	15	843	17.3	16.2	93	1.03
6,000	110	14	813	16.6	15.5	93	.970
7,000	100	12	785	13.8	12.8	94	.946
8,000	100	10	757	10.6	08.3	85	.925
9,000	110	11	730	10.5	06.3	75	.891
10,000	110	14	704	9.3	05.5	77	.865
12,000	120	17	653	3.4	02.6	82	.814
14,000	110	18	606	3.1	00.5	93	.762
16,000	100	16	562	-0.5	-2.8	84	.716
18,000	140	18	522	-4.1	-12.9	50	.675
20,000	150	14	486	-5.8	-18.8	35	.636
25,000	150	26	395	-15.0	118	118	
30,000	250	17					
35,000	210	30					
40,000	210	27					
45,000	230	32					
50,000	280	35					
55,000	5100ft 200	38					
60,000							
65,000							
70,000							
75,000							
80,000							
85,000							
90,000							
95,000							
100,000							

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[REDACTED]

DENSITY vs. ALTITUDE

DELETED

Alt. (ft)	P ^s (mb)	P (mm)	T (°A)	D.P. (°C)	0.3783e	P- 0.3783e	P-0.3783e 760	353.13 T	•
0	1006	754.5	299.0	24.7	8.84	290.2 745.7	.9812	1.1810	1.1528
1,000	968	724.0	297.6	22.7	7.84	248.3	.9450	1.1866	1.1213
1,500	953	714.8	296.7	22.0	7.51	707.3	.9307	1.1902	1.1077
2,000	937	702.8	295.8	21.1	7.10	645.7	.9154	1.1938	1.0928
3	905	678.8	294.1	19.6	6.48	672.3	.8846	1.2007	1.0621
4	874	655.5	292.4	17.9	5.82	649.7	.8549	1.2077	1.0325
5	843	632.3	290.4	16.2	5.23	627.1	.8251	1.2160	1.0033
6	813	609.8	289.7	15.5	5.00	604.8	.7958	1.2190	0.9700
7	785	588.8	286.9	12.8	4.20	584.2	.7627	1.2308	0.9461
8	757	567.8	283.7	8.3	3.10	564.7	.7430	1.2447	0.9242
9	730	547.5	283.6	6.3	2.71	543.8	.7155	1.2452	0.8909
10	704	528.0	282.4	5.5	2.56	525.4	.6913	1.2503	0.8645
12	653	489.8	278.5	2.6	2.09	487.7	.6417	1.2620	0.8137
14	606	454.5	276.2	0.5	1.79	452.7	.5957	1.2725	0.7616
16	562	421.5	272.6	-2.2	1.37	420.1	.5522	1.2954	0.7161
18	522	391.5	269.0	-12.4	0.57	390.9	.5143	1.3122	0.6751
20	482	366.0	267.3	-12.8	0.34	365.7	.4812	1.3211	0.6357
25	395	296.3	258.1	—					
30									
35									
40									
45									
50									
55									

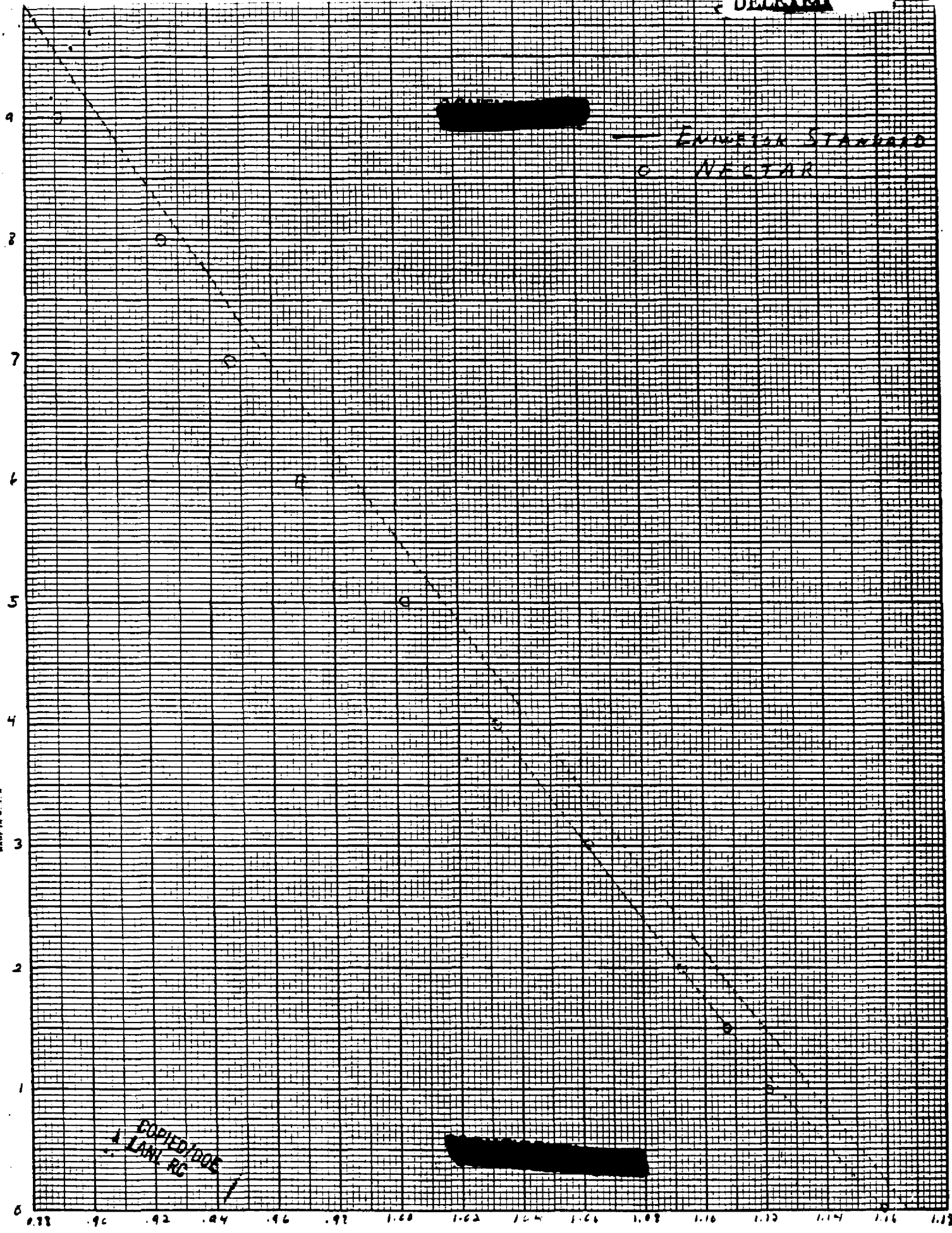
$$e = \frac{353.13}{T} \left[\frac{P-0.3783e}{760} \right]$$

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1000 mb = 750.05 mm

DELSAR

989-12 KEUFFEL & ESSER CO.
10 X 10 to the 1/2 inch, 5th lines accented.
MADE IN U. S. A.



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