

NEW MEXICO APT STATUS REPORT

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I.1 STATISTICS: HOURS OF UP TIME

Operational Statistics						
Month	Status	Total Time				% of Total
		Days	Hours	Minutes	Seconds	
December	Up	31	0	0	0	100%
	Down	0	0	0	0	0%
January	Up	30	23	18	0	99.91%
	Down	0	0	42	0	0.09%
February	Up	28	0	0	0	100.00%
	Down	0	0	0	0	0.00%
March	Up	31	0	0	0	100.00%
	Down	0	0	0	0	0.00%
April	Up	29	23	34	50	99.95%
	Down	0	0	25	10	0.05%
May	Up	30	22	18	45	99.77%
	Down	0	1	41	15	0.23%
Total	Up	181	21	11	35	99.94%
	Down	0	2	48	25	0.06%

**I.2 CALIBRATION: DATES OF ALL CALIBRATIONS, EXTERNAL
AIR TEMP AT CALIBRATION**

Calibration Record		
Month	Day	Air Temperature (°C)
December	none performed	
January	20	12.40
	20	11.30
February	6	17.50
	18	11.50
March	2	16.40
	17	23.70
April	3	23.80
	17	15.40
May	1	27.60
	8	23.20
	26	30.00

I.3 CALIBRATION: DATES OF CRG CALIBRATIONS

CRG Calibration Record	
Month	Date
December	7
	16
	19
	27
January	20
February	6
	18
March	2
April	3
	17
May	1
	26

I.4 SUN INTRUSION DATES

March SUN INTRUSION DATES	
DATE	SATURATING?
4	no
5	no
6	20 GHz only
7	Both channels
8	Both channels
9	no
10	no

I.5 OPERATIONS CHANGES/PROBLEMS

1. FEED HORN CRACKED IN JANUARY - REPLACED WITH SPARE
2. APRIL 23 LOSS OF TIME DUE TO SITE-WIDE POWER GLITCH?
3. APRIL 28 HAD KEYBOARD HANG AND SYSTEM DID NOT RE-BOOT PROPERLY - LOST DATA
 - TIME ON REAL-TIME DISPLAY AND RUNNING GRAPH IS 3 TO 5 MINUTES DIFFERENT
 - WWV TIME IS USUALLY ONLY RECEIVED A FEW TIMES PER WEEK ACCORDING TO CTS-10 SOFTWARE
4. INSTALLED RF TEMPERATURE CONTROLLER AND UPPER SHROUD
5. UNSUCCESSFUL IN MAKING THE NEW PREPROCESSING SOFTWARE CONVERGE CORRECTLY TO REALISTIC VALUES

2.1 OTHER ACTIVITIES

1. RAIN GAUGE CALIBRATION REPORT FINISHED
 - RECOMMEND THAT A SMOOTHING ALGORITHM BE USED RATHER THAN TWO-POINT SLOPES AS COMPUTED WITH ACTSVIEW
2. SUN INTRUSION PREDICTION PROGRAM GENERATED
 - MARYLAND REPORTS SEVERAL HOURS DIFFERENCE BETWEEN PREDICTED AND ACTUAL INTRUSION
 - NEW MEXICO PREDICTIONS ARE CORRECT
 - IF ANYONE WISHES TO SEND ME THEIR ACTUAL INTRUSION TIMES, I WILL TRY TO FIND THE PROBLEM!
3. GLENN FELDHAKES HAS GRADUATED AND MOVED ONTO WORKING FOR LOU IPPOLITO AT STEL.