DOE-2 HOURLY VARIABLES BY SYSTEM TYPE - SYSTEM

Legend: **A = Appropriate** D = Used for program code debugging only N = Not appropriate S = System (or configuration) dependent X = Unused

V-L No.	SYSTEM-TYPE	SUM	SZRH	MZS	DDS	SZCI	UHT	UVT	FPH	TPFC	FPFC	TPIU	FPIU	VAVS	PIU	RHFS	HP	HVSYS	CBVAV	RESYS	PSZ	PMZS	PVAVS	PTAC	PTGSD	PVVT	RESVVT
1	HEATING COIL AIR TEMP	N	N	A	A	N	N	N	N	N	N	N	N	N	N	N	N	A	N	A	N	A	N	A	N	N	
2	COOLING COIL AIR TEMP	N	A	A	A	A	N	N	N	N	N	A	A	A	A	A	N	N	A	A	A	A	A	N	D	A	
3	MIXED AIR TEMP	N	A	A	A	A	N	N	N	N	N	A	A	A	A	A	N	A	A	A	A	A	A	N	A	A	
4	RETURN AIR TEMP	N	A	A	A	A	N	N	N	N	N	A	A	A	A	A	N	A	A	A	A	A	A	N	A	A	
5	TOTAL HEATING COIL BTU	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
6	TOTAL COOLING COIL BTU	A	A	A	A	A	A	A	N	A	A	A	A	A	A	A	A	N	A	A	A	A	A	A	A	A	
7	TOTAL ZONE HEATING BTU	N	A	N	N	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	A	N	A	
8	TOTAL ZONE COOLING BTU	N	A	N	N	A	N	N	N	A	A	A	A	A	A	A	A	N	A	A	A	N	A	A	N	A	
9	TOTAL BBRD ENERGY	N	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
10	TOTAL PREHEAT ENERGY	N	A	A	A	A	N	N	N	N	N	A	A	A	A	A	N	A	A	A	A	A	A	N	N	A	
11	HUMID-CN HEATING	N	A	A	A	A	N	N	N	A	A	A	A	A	A	A	N	A	A	S	A	A	A	N	N	A	
12	DEHUMID REHEAT	N	A	A	A	A	N	N	N	A	A	A	A	A	A	A	N	N	A	S	A	A	A	N	N	A	
13	MIN SUP T	N	A	A	A	A	N	N	N	N	N	A	A	A	A	A	N	A	A	A	A	A	A	N	A	A	
14	MAX SUP T	N	A	A	A	A	N	N	N	N	N	A	A	A	A	A	N	A	A	A	A	A	A	N	A	A	
15	SUM ZONE LAT HEAT	A	A	A	A	A	N	N	N	N	N	A	A	A	A	A	N	A	A	A	A	A	A	N	A	A	
16	SUM ZONE PLN HEAT	A	A	A	A	A	N	N	N	N	N	A	A	A	A	A	N	A	A	A	A	A	A	N	A	A	
17	TOTAL SYSTEM CFM	N	A	A	A	A	N	N	N	N	N	A	A	A	A	A	N	A	A	A	A	A	A	N	A	A	
18	TOTAL HOT CFM	N	N	A	A	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	A	N	N	N	N	
19	TOTAL COLD CFM	N	N	A	A	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	A	N	N	N	N	
20	RETURN CFM	N	A	A	A	A	N	N	N	N	N	A	A	A	A	A	N	A	A	N	A	A	A	N	A	A	
21	EXHAUST CFM	N	A	A	A	A	N	N	N	N	N	A	A	A	A	A	N	A	A	N	A	A	A	N	A	A	
22	INF CFM	A	A	A	A	A	N	N	N	N	N	A	A	A	A	A	N	A	A	A	A	A	A	N	A	A	
23	FANS ON/OFF	A	A	A	A	A	A	A	N	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
24	HEAT ON/OFF	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
25	COOL ON/OFF	A	A	A	A	A	A	A	N	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	
26	BBRDSCH RATIO	N	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
27	CONSTANT (1.08)	N	A	A	A	A	A	A	N	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
28	CONSTANT (0.689)	N	A	A	A	A	A	A	N	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
29	CONSTANT (0.363)	N	A	A	A	A	A	A	N	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
30	HOT AIR FRAC	N	N	A	A	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	A	N	N	N	N	
31	COLD AIR FRAC	N	N	A	A	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	A	N	N	N	N	
32	TOTAL ELECTRIC KW	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
33	TOTAL FAN ELEC	N	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
34	DELTA-T RECOV	N	A	A	A	A	N	N	N	N	N	A	A	A	A	A	N	A	A	N	A	A	A	N	N	A	
35	RET HUMID	N	A	A	A	A	N	N	N	N	N	A	A	A	A	A	N	A	A	N	A	A	A	N	A	A	
36	MAX HUMID	N	A	A	A	A	N	N	N	N	N	A	A	A	A	A	N	A	A	A	A	A	A	N	A	A	
37	HUMID LEAVING COIL	N	A	A	A	A	N	N	N	N	N	A	A	A	A	A	N	A	A	A	A	A	A	N	A	A	
38	MOIST CHG	N	A	A	A	A	N	N	N	N	N	A	A	A	A	A	N	A	A	A	A	A	A	N	A	A	
39	OUTSIDE/TOTAL CFM	N	A	A	A	A	N	N	N	N	N	A	A	A	A	A	N	A	A	N	A	A	A	N	A	A	
40	DENSITY (AIR*60)	N	A	A	A	A	N	N	N	N	N	A	A	A	A	A	N	A	A	N	A	A	A	N	A	N	
41	FLUID TEMP	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	A	N	N	N	N	N	N	N	N	N	
42	COOL-CTR EFFECT	N	A	A	A	A	N	N	N	N	N	A	A	A	A	A	N	N	A	N	A	A	A	N	A	A	
43	QHR	N	A	N	N	A	N	N	N	N	N	N	N	A	A	A	N	N	A	N	A	A	A	N	N	A	
44	QCR	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	A	
45	HEATING GAS	A	A	A	A	A	A	A	N	A	A	A	A	A	A	A	N	A	A	A	A	A	A	A	A	A	
46	HEATING ELEC	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	
47	COOLING ELEC	N	A	A	A	A	N	N	N	N	N	N	N	N	N	N	A	N	N	A	A	A	A	A	N	A	
48	LATENT COOLING	N	A	A	A	A	N	N	N	A	A	A	A	A	A	A	A	N	A	A	A	A	A	A	A	A	
49	SUPPLY ELEC	N	A	A	A	A	N	N	N	N	N	A	A	A	A	A	A	A	A	A	A	A	A	N	A	A	
50	RETURN ELEC	N	A	A	A	A	N	N	N	N	N	A	A	A	A	A	N	A	A	N	A	A	A	N	A	A	
51	CYCLE ON/H OFF C	N	A	N	N	A	N	N	N	N	N	N	N	A	A	A	N	N	A	N	A	A	A	N	N	A	
52	SURFACE HUMIDITY	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	A	
53	Walkin Q	N	A	N	N	A	N	N	N	N	N	N	N	A	N	A	N	N	N	N	A	N	A	N	N	A	N
54	SURFACE TEMP	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	
55	DD heating coil entering temp	N	N	A	A	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	A	N	N	N	N	
56	BYPASS FACTOR	N	A	A	A	A	N	N	N	A	A	A	A	A	A	A	A	N	A	A	A	A	A	A	A	A	
57	CBF F (WB,DB)	N	A	A	A	A	N	N	N	N	N	A	A	A	A	A	N	N	A	A	A	A	A	N	N	A	
58	CBF F CFM	N	A	A	A	A	N	N	N	N	N	A	A	A	A	A	N	N	A	A	A	A	A	N	N	A	
59	EXHAUST FANS ON/OFF	N	A	A	A	A	N	N	N	N	N	A	A	A	A	A	N	A	A	N	A	A	A	N	N	A	N
60	PLR CFM	N	A	A	A	A	N	N	N	N	N	A	A	A	A	A	N	N	A	A	A	A	A	N	A	A	
61	PLR COOLING	N	A	A	A	A	N	N	N	N	N	A	A	A	A	A	N	N	A	A	A	A	A	N	N	A	
62	PLR HEATING	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	A	A	N	A	N	N	A	
63	COOL-CAP F (WB,DB)	N	A	A	A	A	N	N	N	N	N	A	A	A	A	A	N	N	A	A	A	A	A	N	N	A	
64	COOL-SH F (WB,DB)	N	A	A	A	A	N	N	N	N	N	A	A	A	A	A	N	N	A	A	A	A	A	N	N	A	
65	HEAT-CAP F (TEMP)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	A	A	N	N	N	N	A	
66	EIR F (WB,DB)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	A	A	A	A	N	N	A	
67	EIR F (PLR)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	A	A	A	A	N	N	A	
68	EIR	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	A	A	A	A	N	N	A	
69	OUTSIDE FAN KW	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	A	A	A	A	N	N	A	
70	COOLING CAPACITY	N	A	A	A	A	N	N	N	N	N	A	A	A	A	A	N	A	A	A	A	A	A	A	A	A	
71	SENSIBLE CAPACITY	N	A	A	A	A	N	N	N	N	N	A	A	A	A	A	N	A	A	A	A	A	A	A	A	A	
72	MAX HUMID SETPOINT	N	A	A	A	A	N	N	N	N	N	A	A	A	A	A	N	A	A	A	A	A	A	A	A	A	
73	MIN HUMID SETPOINT	N	A	A	A	A	N	N	N	N	N	A	A	A	A	A	N	A	A	A	A	A	A	A	N	A	
74	VAV MAX CFM RATE	N	A	A	A	A	N	N	N	N	N	N	N	A	A	A	N	N	N	N	A	A	A	N	N	A	
75	PIPE DUCT LOSS	N	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	
76	PIPE DUCT LOSS	N	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	
77	ERV SCHEDULE	X	A	A	A	A	X	X	X	A	A	A	A	A	A	A	X	A	A	X	A	A	A	X	X	A	
78	HEATING CAPACITY	N	A	A	A	A	N	N	N	N	N	A	A	A	A	A	N	A	A	N	A	A	A	N	N	A	
79	TEMP AT MIN OA	N	A	A	A	A	N	N	N	N	N	A	A	A	A	A	N	A	A	N	A	A	A	N	N	A	
80	MIN OA EST	N	A	A	A	A	N	N	N	N	N	A	A	A	A	A	N	A	A	N	A	A	A	N	A	A	
81	HP SUPP HEAT	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	A	A	N	A	A	N	A	

DOE-2 HOURLY VARIABLES BY SYSTEM TYPE - ZONE

Legend: **A = Appropriate** D = Used for program code debugging only N = Not appropriate S = System (or configuration) dependent X = Unused

V-L No.	SYSTEM-TYPE	SUM	SZRH	MZS	DDS	SZCI	UHT	UVT	FPH	TPFC	FPFC	TPIU	FPIU	VAVS	PIU	RHFS	HP	HVSYS	CBVAV	RESYS	PSZ	PMZS	PVAVS	PTAC	PVVT	RESVVT
1	SENS LOAD-IN	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
2	LATENT LOAD-IN	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
3	ELEC LOAD-IN	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
4	PLENUM LOAD-IN	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
5	INFL CFM	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
6	ZONE TEMP	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
7	THERMOSTAT SETPT	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
8	EXTRACTION RATE	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
9	TOTAL UA FOR HOUR	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
10	UNUSED	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
11	EXH CFM	N	A	A	A	A	N	N	N	A	A	A	A	A	A	A	A	A	A	N	A	A	A	N	A	
12	HOT DECK CFM	N	N	A	A	N	A	A	N	N	N	N	N	N	N	N	A	N	N	N	N	A	N	A	N	
13	COLD DECK CFM	N	N	A	A	N	N	N	N	N	N	N	N	N	N	N	A	N	N	N	N	A	N	A	N	
14	SUPPLY CFM	N	A	A	A	A	A	A	N	A	A	A	A	A	A	A	A	A	A	N	A	A	A	A	A	
15	BBRD HEAT RATE	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
16	LOAD NOT MET	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
17	HEAT SET POINT	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
18	COOL SET POINT	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
19	MAX COOLING	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
20	MAX HEATING	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
21	FLOAT TEMP	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
22	F IN TEMDEV	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
23	INT TRAN TO ZONE	A	A	D	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
24	TEMDEV VAR G0	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
25	TEMDEV VAR G1	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	
26	TEMDEV VAR G2	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	
27	TEMDEV VAR G3	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	
28	TEMDEV SIG-MAG	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	
29	IND UNIT AIR TEMP	N	N	N	N	N	N	N	N	N	N	A	N	N	N	N	N	N	N	N	N	N	N	N		
30	HEAT TO ZONE T	N	A	N	N	A	N	N	N	N	N	N	A	A	A	N	A	A	N	A	N	A	N	A		
31	COOL TO ZONE T	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
32	HEATING BY COILS	N	A	N	N	A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N	A	A	A		
33	COOLING BY COILS	N	N	N	N	N	A	A	N	A	A	N	N	N	N	N	A	A	N	N	N	N	N	A	A	
34	UNIT SUP TEMP	N	N	N	N	N	A	A	N	A	A	N	N	N	N	N	A	N	N	N	N	N	N	A	N	
35	UNIT HEATING	N	N	N	N	N	A	A	N	A	A	N	N	N	N	N	A	N	N	N	N	N	N	A	N	
36	UNIT COOLING	N	N	N	N	N	A	A	N	A	A	N	N	N	N	N	A	N	N	N	N	N	N	A	N	
37	UNIT FAN KW	N	N	N	N	N	A	A	N	A	A	N	N	N	N	N	A	N	N	N	N	N	N	A	N	
38	UNIT MIX TEMP	N	N	N	N	N	A	A	N	A	A	N	N	N	N	N	A	N	N	N	N	N	N	A	N	
39	UNIT WR OR TC	N	N	N	N	N	S	S	N	A	A	N	N	N	N	N	A	N	N	N	N	N	N	S	N	
40	UNIT MIX HUM	N	N	N	N	N	A	A	N	A	A	N	N	N	N	N	A	N	N	N	N	N	N	A	N	
41	UNIT COIL HUM	N	N	N	N	N	A	A	N	A	A	N	N	N	N	N	A	N	N	N	N	N	N	A	N	
42	UNIT OA-RATIO	N	N	N	N	N	A	A	N	A	A	N	N	N	N	N	A	N	N	N	N	N	N	A	N	
43	UNIT LAT COOL	N	N	N	N	N	A	A	N	A	A	N	N	N	N	N	A	N	N	N	N	N	N	A	N	
44	UNIT COOL PLR	N	N	N	N	N	A	A	N	A	A	N	N	N	N	N	A	N	N	N	N	N	N	A	N	
45	UNIT HEAT PLR	N	N	N	N	N	A	A	N	A	A	N	N	N	N	N	A	N	N	N	N	N	N	A	N	
46	UNIT EIR	N	N	N	N	N	A	A	N	A	A	N	N	N	N	N	A	N	N	N	N	N	N	A	N	
47	UNIT WETBULB	N	N	N	N	N	A	A	N	A	A	N	N	N	N	N	A	N	N	N	N	N	N	A	N	
48	UNIT DEFROST	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	A	N	N	N	N	N	A	N	
49	WEIGHTED CFM	N	A	A	A	A	N	N	N	N	N	A	A	A	A	A	N	A	A	N	A	A	A	N	A	
50	TOTAL ELECTRIC	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
51	MIN COOL T	N	A	A	A	A	A	A	N	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
52	MAX HEAT T	N	A	A	A	A	A	A	N	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
53	DEADBAND MAX EXTR	N	A	A	A	A	A	A	N	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
54	DEADBAND MIN EXTR	N	A	A	A	A	A	A	N	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
55	THROTTLE OVER TWO	N	A	A	A	A	A	A	N	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
56	COM WIN SOL GAIN (Btu/hr)	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
57	COM WIN SOL LOAD BTU/HR	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
58	COM WIN CONDUC BTU/HR	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
59	COM WIN ABSD SOL BTU/HR	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
60	COM WALL CONDUC BTU/HR	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
61	CONVEC HT GAIN BTU/HR	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
62	CONVEC AIR FLOW CFM	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
63	SUNSPACE FAN POWR KW	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
64	SUNSPACE VENT FLOW CFM	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	