

===== PuTTY log 2023.07.07 00:18:15 =====

\*menu\*

\*\*\*\_ Welcome \_\*\*\*

Executive : 9.3N (CRC32=f95a07b7)
Speech : 1.1 (CRC32=80730d01)
Boot : 3.0 (CRC32=6f3610ba)
SiteIDMicro: P010039
SiteIDFName: 10039
Time Zone : Eastern [EDT] + Daylight Saving (UTC - 4).
Note: Daylight Saving option is Enabled!

Last Start : Mon Feb 13, 2023 @ 14:55.

Last Train : Feb 13, 2023 @ 08:47. Train # 119, 358 axles. Direction = East

Telnet P10001 : User Online
Telnet P 9999 : Free

NS Norris Run, VA MP 293.4
[00:18:17] SDM\_Micro v0.7 - Telnet Port 10001 > hbd

You are connected to MicroHBD.
Press Ctl+S to re-activate SDM's menus

Sending \*MENU\* command to MicroHBD.

Progress Rail Services - Inspection and Information Systems
MicroHBD Ver 9.3N
Boot Ver 3.0
ETH Ver Unknown
Jul 07, 2023 00:18:23

Norris Run, Va., Single Track MP:293.40
Display > ll

Norris Run, Va. Single Track 293.40
Profile Key: A = Atypical, \* = Warm, ^ = Alarm, \$ = Corrected
Flag Key: B = Bad Data, A = Del Axles, C = Del Cars, E = ETP/ETM In Use,
P = Pwr Fail, V = Low Volt, X = Trn Sent, N = Trn Not Sent,
W = Trn Waiting To Send, T = Lost Tags

Table with columns: Indx #, Dir, Axle #, Car #, Spd Cnt In/Out, Alrm Cnt, Int Cnt, Tmp, Avg Ch1, Avg Ch2, Arrival Time, Date, Flags. Contains 15 rows of train data.

116	E	440	109	33/ 32	0	0	79	28	24	12:07	07-05-2023	XWW
115	E	438	108	33/ 33	0	0	77	21	18	11:36	07-05-2023	XWW
114	E	436	108	31/ 31	0	0	72	34	29	22:30	07-04-2023	XWW
113	E	352	87	33/ 32	0	0	82	29	25	12:56	07-04-2023	XWW
112	E	432	107	32/ 32	0	0	73	32	27	10:01	07-04-2023	XWW
111	E	452	112	31/ 31	0	0	68	35	29	07:38	07-04-2023	XWW
110	E	432	107	31/ 30	0	0	66	34	29	06:57	07-04-2023	XWW
109	E	406	100	34/ 34	0	0	68	31	27	03:50	07-04-2023	XWW
108\$	E	876	217	33/ 34	0	0	68	34	29	02:42	07-04-2023	XWW
107	E	328	81	35/ 34	0	0	84	33	26	15:31	07-03-2023	XWW
106	E	472	117	32/ 31	0	0	75	32	27	10:33	07-03-2023	XWW
105	E	452	112	33/ 34	0	0	68	33	28	06:29	07-03-2023	XWW
104	E	420	104	33/ 32	0	0	82	34	29	20:08	07-02-2023	XWW
103	E	424	105	35/ 34	0	0	66	32	26	06:11	07-02-2023	XWW
102\$	E	832	206	31/ 31	0	0	66	33	29	03:50	07-02-2023	XWW
101	E	452	112	27/ 27	0	0	79	33	28	20:02	07-01-2023	XWW
100	E	352	87	33/ 33	0	0	84	31	26	15:38	07-01-2023	XWW
99	E	458	113	34/ 33	0	0	79	31	26	13:52	07-01-2023	XWW
98	E	456	113	30/ 30	0	0	70	32	28	09:24	07-01-2023	XWW
97\$	E	444	110	33/ 33	0	0	72	33	28	23:58	06-30-2023	XWW
96	E	380	93	34/ 34	0	0	86	29	25	16:57	06-30-2023	XWW
95	E	438	108	24/ 24	0	0	84	26	21	15:01	06-30-2023	XWW
94\$	E	436	108	35/ 35	0	0	79	33	27	13:08	06-30-2023	XWW
93\$	E	438	108	34/ 33	0	0	66	30	25	08:23	06-30-2023	XWW
92	E	432	107	21/ 20	0	0	66	27	23	05:38	06-30-2023	XWW
91	E	452	112	32/ 31	0	0	68	32	28	02:18	06-30-2023	XWW
90	E	352	87	31/ 31	0	0	68	24	20	00:15	06-30-2023	XWW
89	E	352	87	33/ 33	0	0	75	35	29	20:27	06-29-2023	XWW
88	E	448	111	24/ 24	0	0	75	22	19	12:32	06-29-2023	XWW
87	E	432	107	32/ 32	0	0	59	32	27	06:22	06-29-2023	XWW
86	E	436	108	33/ 33	0	0	59	34	28	04:18	06-29-2023	XWW
85	E	412	102	35/ 35	0	0	61	35	29	02:14	06-29-2023	XWW
84	E	428	106	32/ 32	0	0	68	32	26	23:02	06-28-2023	XWW
83	E	352	87	32/ 33	0	0	73	32	27	20:21	06-28-2023	XWW
82	E	478	118	35/ 35	0	0	75	33	27	19:52	06-28-2023	XWW
81	E	436	108	32/ 32	0	0	72	33	29	11:28	06-28-2023	XWW
80	E	452	112	26/ 26	0	0	66	31	25	03:25	06-28-2023	XWW
79	E	348	86	31/ 31	0	0	68	33	28	23:16	06-27-2023	XWW
78	E	352	87	34/ 35	0	0	72	33	27	17:04	06-27-2023	XWW
77	W	452	112	35/ 35	0	0	68	13	12	14:45	06-27-2023	XWW
76	E	452	112	32/ 33	0	0	70	32	27	13:45	06-27-2023	XWW
75	E	458	113	31/ 31	0	0	64	32	27	06:00	06-27-2023	XWW
74	E	356	88	34/ 33	0	0	66	31	27	01:32	06-27-2023	XWW
73	E	432	107	34/ 33	0	0	68	33	28	23:52	06-26-2023	XWW
72	E	334	82	34/ 34	0	0	73	31	27	21:12	06-26-2023	XWW
71	E	420	104	34/ 34	0	0	81	35	29	19:32	06-26-2023	XWW
70	E	492	122	30/ 30	0	0	84	34	28	18:58	06-26-2023	XWW
69	E	472	117	33/ 33	0	0	73	32	26	11:47	06-26-2023	XWW
68	E	436	108	31/ 30	0	0	66	35	30	01:15	06-26-2023	XWW
67	E	492	122	28/ 28	0	0	73	32	27	19:38	06-25-2023	XWW
66	E	412	102	33/ 33	0	0	79	34	28	18:03	06-25-2023	XWW
65	E	444	110	31/ 30	0	0	77	31	25	13:14	06-25-2023	XWW
64	E	452	112	33/ 33	0	0	63	33	28	07:44	06-25-2023	XWW
63	E	348	86	34/ 34	0	0	64	36	31	03:29	06-25-2023	XWW
62	E	436	108	33/ 33	0	0	72	32	26	11:43	06-24-2023	XWW
61	E	888	220	30/ 31	0	0	64	32	27	08:18	06-24-2023	XWW
60	E	468	116	31/ 30	0	0	64	34	28	00:49	06-24-2023	XWW
59	E	432	107	32/ 32	0	0	72	33	27	17:41	06-23-2023	XWW
58	E	352	87	32/ 32	0	0	75	31	26	15:28	06-23-2023	XWW
57	E	456	112	34/ 34	0	0	77	24	19	14:43	06-23-2023	XWW
56	E	420	104	17/ 25	0	0	72	20	17	12:23	06-23-2023	XWW
55	E	436	108	30/ 29	0	0	68	30	26	11:28	06-23-2023	XWW
54	E	452	112	34/ 34	0	0	61	32	27	06:17	06-23-2023	XWW
53	E	412	102	29/ 26	0	0	63	29	25	20:28	06-22-2023	XWW
52	E	438	108	36/ 35	0	0	59	30	26	11:05	06-22-2023	XWW
51\$	E	452	112	34/ 34	0	0	59	33	28	06:42	06-22-2023	XWW
50	E	436	108	34/ 34	0	0	59	30	25	04:29	06-22-2023	XWW

49\$	E	452	112	34/ 34	0	0	59	33	28	21:22	06-21-2023	XWW
48	E	452	112	34/ 34	0	0	61	34	29	20:15	06-21-2023	XWW
47	E	348	86	33/ 33	0	0	63	31	27	16:47	06-21-2023	XWW
46	E	468	115	31/ 33	0	0	63	27	23	16:07	06-21-2023	XWW
45	W	432	107	35/ 33	0	0	64	14	12	14:06	06-21-2023	XWW
44	W	336	83	35/ 34	0	0	64	14	12	11:44	06-21-2023	XWW
43	E	460	114	35/ 35	0	0	63	35	28	02:40	06-21-2023	XWW
42	E	380	94	34/ 31	0	0	63	35	29	23:55	06-20-2023	XWW
41	E	444	110	34/ 34	0	0	64	34	29	23:09	06-20-2023	XWW
40	E	452	112	28/ 26	0	0	66	31	26	20:37	06-20-2023	XWW
39\$	E	452	112	33/ 33	0	0	66	30	25	20:11	06-20-2023	XWW
38	E	274	67	27/ 26	0	0	72	28	23	17:03	06-20-2023	XWW
37	E	492	122	28/ 28	0	0	66	30	25	11:42	06-20-2023	XWW
36	E	464	114	33/ 33	0	0	64	30	26	04:53	06-20-2023	XWW
35	E	452	112	28/ 28	0	0	64	31	26	03:16	06-20-2023	XWW
34	E	484	120	31/ 30	0	0	66	31	27	21:43	06-19-2023	XWW
33	W	358	88	32/ 31	0	0	70	16	14	14:26	06-19-2023	XWW
32	W	420	104	35/ 34	0	0	64	17	15	08:19	06-19-2023	XWW
31\$	E	452	112	34/ 34	0	0	63	35	29	03:00	06-19-2023	XWW
30	E	472	117	34/ 34	0	0	73	36	29	20:53	06-18-2023	XWW
29	E	348	86	34/ 33	0	0	72	29	25	12:21	06-18-2023	XWW
28	E	396	98	32/ 31	0	0	54	32	28	07:33	06-18-2023	XWW
27	E	352	87	33/ 33	0	0	57	32	27	02:33	06-18-2023	XWW
26	E	460	114	34/ 34	0	0	61	33	27	23:57	06-17-2023	XWW
25	E	420	104	35/ 35	0	0	61	33	28	09:13	06-17-2023	XWW
24	E	436	108	34/ 34	0	0	61	35	29	07:31	06-17-2023	XWW
23	E	412	102	32/ 31	0	0	61	30	25	04:35	06-17-2023	XWW
22	E	340	84	30/ 32	0	0	64	30	26	23:31	06-16-2023	XWW
21	E	436	108	33/ 32	0	0	81	33	28	17:36	06-16-2023	XWW
20	E	432	107	33/ 33	0	0	81	31	25	17:11	06-16-2023	XWW
19	E	904	224	29/ 24	0	0	79	28	23	13:11	06-16-2023	XWW
18\$	E	438	108	34/ 33	0	0	61	29	24	09:04	06-16-2023	XWW
17\$	E	432	107	31/ 30	0	0	59	32	27	04:11	06-16-2023	XWW
16	E	458	113	30/ 29	0	0	63	34	28	23:57	06-15-2023	XWW
15	E	438	108	34/ 34	0	0	81	32	26	17:00	06-15-2023	XWW
14	E	496	123	33/ 33	0	0	77	34	28	14:01	06-15-2023	XWW
13	E	904	224	33/ 31	0	0	61	32	27	08:27	06-15-2023	XWW
12	E	872	216	18/ 24	0	0	61	30	26	04:17	06-15-2023	XWW

Norris Run, Va., Single Track MP:293.40  
 Display > dd121266

Site Name	: Norris Run, Va.	Seq Number	: 8304
Milepost	: 293.40	DB Index #	: 126
Direction	: East	Arrival	: 16:36 07-06-2023
Speed In/Out:	32/32 MPH	Departure	: 16:38:30
Slow Speed	: 32 MPH	Maximum Speed	: 33 MPH
		Average Speed	: 31 MPH

Amb Temp : 82 F                      Battery Voltage: 13.10

Axles	: 438	Train Length	: 5498.3 Feet
Alarms	: 0	Cars	: 108
Integ Fails	: 0	Gate A Cnt	: 438
System Warn	: 0	Gate B Cnt	: 438
Ch1 Atypical:	0	Ch1 Atyp Alm:	0
Ch2 Atypical:	0	Ch2 Atyp Alm:	0
Sunshot Fltr:	Inactive		
Radio	: On	DED Alarms	: On
HBD Scanners:	On	AUX Alarms	: Off
Announce ABS:	On	Announce WRM:	On
Announce DIF:	Off	Announce CSA:	On
Announce DED:	On	Announce HI	: On

Announce WD1: On  
 Announce HWD: On  
 Efficacy. Test: Off

Announce WD2: On

Integ Ch1 : 253 F  
 Integ Ch2 : 253 F

Avg Ch1 : 29 F  
 Avg Ch2 : 25 F

ABS High : 170 F  
 Diff Limit : 115 F  
 Diff Low Lim: 0 F  
 CSA Slope : 1.60  
 CSA Limit : 255 F

Lowest Ch1 : 0 F  
 Lowest Ch2 : 2 F  
 Highest Ch1 : 79 F  
 Highest Ch2 : 65 F  
 Warm High : 255 F

HBD Filter : 13 Point Median Filter

Car Num	Axle Num	Spacing (Feet)	Ch1 (F)	Ch2 (F)	Alarms
----- Heat Units = F					
1	1	0.0	24	26	
	2	6.6	2	21	
	3	6.9	6	10	
	4	33.3	0	4	
	5	6.8	24	10	
	6	6.5	0	23	
2	7	13.7	0	4	
	8	6.5	0	4	
	9	6.4	0	2	
	10	32.9	2	10	
	11	6.4	6	2	
	12	6.4	6	4	
3	13	13.7	12	26	
	14	6.5	21	4	
	15	6.8	8	23	
	16	33.4	21	27	
	17	6.8	12	26	
	18	6.5	2	4	
4	19	10.1	36	26	
	20	5.7	40	29	
	21	32.5	26	27	
	22	5.7	29	26	
5	23	6.8	30	23	
	24	5.7	16	14	
	25	32.5	33	23	
	26	5.7	36	26	
6	27	6.8	29	29	
	28	5.7	21	27	
	29	32.5	26	21	
	30	5.7	29	29	
7	31	6.7	29	23	
	32	5.7	29	26	
	33	32.5	26	31	
	34	5.7	29	27	
8	35	6.7	33	26	
	36	5.7	30	27	
	37	32.5	40	33	
	38	5.7	29	21	
9	39	6.8	26	27	
	40	5.7	37	37	
	41	31.5	43	33	
	42	5.7	33	29	

10	43	6.7	36	36
	44	5.7	36	18
	45	32.5	37	38
	46	5.7	33	29
11	47	6.7	33	26
	48	5.7	26	21
	49	32.5	37	21
	50	5.7	43	33
12	51	7.2	12	21
	52	5.7	43	37
	53	33.5	43	31
	54	5.7	48	31
13	55	7.1	40	23
	56	5.7	44	38
	57	31.4	36	29
	58	5.7	24	26
14	59	6.7	36	23
	60	5.7	30	23
	61	32.4	40	36
	62	5.7	47	36
15	63	6.7	12	18
	64	5.7	24	14
	65	32.5	26	21
	66	5.7	29	23
16	67	6.8	30	27
	68	5.7	44	33
	69	32.5	44	36
	70	5.7	26	26
17	71	6.8	26	18
	72	5.8	43	31
	73	32.4	30	27
	74	5.7	24	26
18	75	6.7	29	23
	76	5.6	29	26
	77	32.5	24	26
	78	5.7	26	21
19	79	6.8	30	10
	80	5.7	24	23
	81	32.4	43	36
	82	5.7	33	29
20	83	6.8	18	21
	84	5.7	18	21
	85	32.5	26	18
	86	5.7	29	26
21	87	6.7	33	26
	88	5.7	24	26
	89	32.5	30	31
	90	5.7	21	14
22	91	6.7	24	18
	92	5.6	24	21
	93	32.5	26	21
	94	5.7	26	18
23	95	6.7	8	16
	96	5.7	26	14

	97	31.5	21	23
	98	5.7	36	27
24	99	6.7	30	27
	100	5.7	33	23
	101	31.4	37	31
	102	5.7	51	51
25	103	6.7	18	16
	104	5.6	26	21
	105	32.5	30	27
	106	5.6	29	21
26	107	6.7	18	21
	108	5.7	12	29
	109	32.4	43	41
	110	5.7	43	36
27	111	6.7	33	27
	112	5.7	33	33
	113	31.5	26	29
	114	5.7	24	10
28	115	6.8	33	27
	116	5.7	33	23
	117	32.4	36	27
	118	5.7	26	21
29	119	6.7	26	23
	120	5.7	33	23
	121	32.4	24	29
	122	5.7	29	23
30	123	6.8	30	21
	124	5.7	26	29
	125	32.4	36	29
	126	5.7	36	29
31	127	6.7	30	33
	128	5.7	24	16
	129	31.5	36	29
	130	5.7	29	23
32	131	6.7	30	29
	132	5.7	29	29
	133	32.4	43	27
	134	5.7	26	23
33	135	6.7	24	23
	136	5.7	36	16
	137	32.4	40	26
	138	5.7	24	21
34	139	7.2	8	14
	140	5.7	40	26
	141	31.5	21	21
	142	5.7	51	18
35	143	7.2	18	26
	144	5.7	24	26
	145	32.4	30	26
	146	5.7	36	21
36	147	6.7	24	27
	148	5.7	36	18
	149	32.4	33	26
	150	5.7	33	23

37	151	6.7	29	27
	152	5.7	24	21
	153	32.4	33	29
	154	5.7	36	33
38	155	6.7	24	21
	156	5.7	29	27
	157	32.5	30	29
	158	5.7	36	26
39	159	6.7	29	31
	160	5.6	37	29
	161	32.4	30	27
	162	5.7	37	41
40	163	6.8	16	14
	164	5.7	24	23
	165	32.4	40	31
	166	5.7	26	18
41	167	6.7	36	29
	168	5.7	36	33
	169	31.4	36	37
	170	5.7	47	38
42	171	6.8	18	10
	172	5.7	26	16
	173	32.4	21	21
	174	5.7	30	29
43	175	6.7	29	23
	176	5.7	29	23
	177	32.4	33	27
	178	5.7	26	23
44	179	6.7	33	31
	180	5.9	33	27
	181	32.4	30	29
	182	5.7	43	27
45	183	6.7	26	16
	184	5.6	36	21
	185	32.4	29	29
	186	5.7	36	23
46	187	6.6	29	21
	188	5.7	30	27
	189	32.4	43	29
	190	5.6	30	26
47	191	6.7	30	23
	192	5.7	30	37
	193	32.4	33	26
	194	5.7	30	21
48	195	6.7	12	10
	196	5.7	30	36
	197	32.4	33	31
	198	5.7	40	27
49	199	6.7	30	23
	200	5.7	18	21
	201	32.4	36	23
	202	5.7	37	27
50	203	6.8	26	27

	204	5.7	16	16
	205	32.4	26	26
	206	5.7	26	23
51	207	6.7	43	31
	208	5.7	37	31
	209	31.4	40	36
	210	5.7	43	26
52	211	6.7	26	16
	212	5.7	26	18
	213	32.4	26	23
	214	5.6	29	23
53	215	6.7	21	26
	216	5.7	26	23
	217	32.4	30	27
	218	5.7	33	27
54	219	6.7	24	21
	220	5.7	30	23
	221	32.4	36	31
	222	5.7	29	29
55	223	6.7	61	47
	224	5.7	79	51
	225	32.4	56	53
	226	5.7	76	56
56	227	6.8	16	10
	228	5.7	24	18
	229	32.4	30	31
	230	5.7	37	26
57	231	6.7	21	16
	232	5.7	29	26
	233	32.4	30	27
	234	5.7	24	27
58	235	6.6	26	18
	236	5.7	24	18
	237	32.4	24	23
	238	5.7	24	23
59	239	6.7	33	31
	240	5.7	30	23
	241	32.4	29	26
	242	5.7	26	18
60	243	6.7	30	27
	244	5.7	36	27
	245	32.5	29	27
	246	5.7	33	31
61	247	6.8	33	16
	248	5.7	29	23
	249	32.3	29	36
	250	5.7	24	16
62	251	6.8	40	38
	252	5.7	33	31
	253	31.4	30	29
	254	5.7	33	27
63	255	6.6	24	31
	256	5.7	29	23
	257	32.4	29	26



	258	5.6	30	27
64	259	6.7	21	26
	260	5.7	29	31
	261	31.4	37	27
	262	5.7	40	33
65	263	6.6	16	23
	264	5.7	26	37
	265	32.4	29	26
	266	5.7	36	26
66	267	6.6	36	38
	268	5.7	47	36
	269	31.4	30	31
	270	5.6	33	29
67	271	6.7	29	27
	272	5.7	30	27
	273	32.4	24	23
	274	5.7	33	26
68	275	6.7	30	29
	276	5.7	37	29
	277	32.4	37	33
	278	5.7	54	33
69	279	6.8	24	18
	280	5.6	26	26
	281	32.4	24	26
	282	5.6	47	33
70	283	6.8	29	31
	284	5.7	16	16
	285	31.3	24	21
	286	5.6	16	14
71	287	6.7	24	23
	288	5.7	33	27
	289	32.4	30	41
	290	5.7	30	21
72	291	6.7	30	23
	292	5.7	33	29
	293	32.4	26	26
	294	5.7	40	33
73	295	6.7	26	18
	296	5.6	26	26
	297	32.4	48	38
	298	5.7	43	31
74	299	6.7	16	65
	300	5.7	18	18
	301	32.4	43	33
	302	5.7	43	27
75	303	6.6	29	29
	304	5.7	30	27
	305	32.4	44	26
	306	5.7	43	14
76	307	6.7	36	36
	308	5.9	26	33
	309	32.4	30	29
	310	5.7	29	26

77	311	6.7	21	16
	312	5.7	26	27
	313	32.4	21	23
	314	5.7	30	23
78	315	6.6	24	18
	316	5.7	36	23
	317	31.4	16	16
	318	5.7	29	18
79	319	6.6	33	37
	320	5.7	51	33
	321	31.4	40	36
	322	5.7	44	26
80	323	6.7	40	23
	324	5.7	33	37
	325	31.4	36	31
	326	5.7	37	21
81	327	6.8	18	23
	328	5.7	30	29
	329	32.4	29	27
	330	5.7	18	16
82	331	6.7	18	18
	332	5.6	36	23
	333	32.4	26	23
	334	5.6	30	27
83	335	6.8	16	16
	336	5.7	33	26
	337	32.4	33	23
	338	5.7	24	21
84	339	6.7	29	27
	340	5.7	30	26
	341	32.4	29	29
	342	5.7	29	27
85	343	6.7	21	21
	344	5.6	29	27
	345	32.4	24	21
	346	5.7	30	26
86	347	6.7	30	23
	348	5.6	26	27
	349	31.5	37	33
	350	5.7	33	26
87	351	6.9	29	18
	352	5.7	36	26
	353	32.4	43	31
	354	5.7	26	23
88	355	6.7	37	27
	356	5.7	18	23
	357	32.5	24	26
	358	5.7	47	31
89	359	6.7	24	29
	360	5.7	30	27
	361	32.5	33	33
	362	5.7	29	27
90	363	6.7	21	16
	364	5.7	26	29

	365	32.5	30	27
	366	5.7	16	21
91	367	6.7	33	33
	368	5.7	44	29
	369	31.4	26	27
	370	5.7	48	36
92	371	6.7	18	21
	372	5.7	36	27
	373	32.5	30	27
	374	5.7	37	36
93	375	6.6	16	16
	376	5.7	26	16
	377	32.4	21	21
	378	5.7	24	16
94	379	6.7	29	21
	380	5.7	30	29
	381	32.4	47	38
	382	5.7	48	38
95	383	6.7	29	27
	384	5.7	29	29
	385	32.5	24	21
	386	5.7	36	31
96	387	6.6	26	10
	388	5.7	30	10
	389	32.5	24	21
	390	5.7	24	29
97	391	6.6	21	21
	392	5.7	43	26
	393	32.5	40	36
	394	5.7	33	21
98	395	6.7	29	16
	396	5.7	29	26
	397	32.4	26	23
	398	5.7	18	14
99	399	6.7	26	26
	400	5.7	29	18
	401	32.5	33	23
	402	5.7	18	14
100	403	6.7	24	26
	404	5.7	30	26
	405	32.5	26	26
	406	5.7	33	18
101	407	6.7	29	29
	408	5.7	33	27
	409	32.5	29	21
	410	5.7	29	29
102	411	6.7	24	27
	412	5.7	30	29
	413	32.5	24	27
	414	5.7	29	16
103	415	6.6	26	27
	416	5.7	21	26
	417	32.5	26	16
	418	5.7	24	26

104	419	6.6	21	26
	420	5.7	43	27
	421	31.5	26	21
	422	5.7	30	27
105	423	6.8	33	31
	424	5.7	24	14
	425	32.4	30	33
	426	5.7	24	18
106	427	6.8	43	27
	428	5.7	44	37
	429	32.5	48	38
	430	5.7	36	23
107	431	6.7	30	38
	432	5.7	33	23
	433	31.5	47	31
	434	5.7	29	31
108	435	6.7	16	26
	436	5.7	29	27
	437	32.5	30	27
	438	5.7	29	23

Norris Run, Va., Single Track MP:293.40  
 Display > ii

NS HBD/HWD/AEI  
 HBD Ver 9.3N  
 Speech Ver 1.1  
 Boot Ver 3.0  
 ETH Ver Unknown

Firmware Installed: Mar 11 2019  
 Last Power Reset : Jun 08 2023 09:58:38  
 Current Time/Date : Jul 07, 2023 00:18:47

Current Temp : 72 F  
 Battery Voltage : 13.29 Volts DC  
 CPU Board ID : 227448-100 CPU3  
 SIB Board ID : 227294-004 Pyro ACS II  
 Analog Board ID : 227261-001A Enhanced I/O

Last Changed  
 -----  
 Set at Default Values  
 From COM3, Local Maintenance  
 Oct 16 2019  
 15:21:39

Display Settings

Display Temperature with Ambient : No  
 Remember Password Duration : 10 min  
 Display Heat in Metric : No  
 Display Distance in Metric : No  
 Display Speed in Metric : No  
 Display Loco Tag in Train List : No

Last Changed  
 -----  
 Set at Default Values  
 From COM3, Local Maintenance  
 Oct 16 2019  
 15:19:14

Port Configuration

COM1, S918 : 19200 baud  
COM4, Remote Maint. Dial Up : 9600 baud  
COM2, Local Maintenance : 19200 baud  
COM3, Local Maintenance : 9600 baud  
COM1 : S918  
COM4 : Remote Maint. Dial Up  
COM2 : Local Maintenance  
COM3 : Local Maintenance  
COM1 Flow Control : None  
COM4 Flow Control : None  
COM2 Flow Control : None  
COM3 Flow Control : None

Last Changed  
-----  
Railroad Staff  
From (null)  
Jul 06 2023  
09:17:40

#### Transducer Configuration

Transducer Miscount Warning Level : 4  
Transducer Miscount Integrity Level : 8  
Axle Window Timeout Pad : 40 Percent  
Minimum Axles For Speed Stabilization : 3  
Transducer Spacing (A to B) : 24.00 Inch  
Default Axle Speed : 60 MPH  
Max Axle Speed : 110 MPH  
Inter-Axle Debounce : 36.00 Inch

Last Changed  
-----  
Set at Default Values  
From COM3, Local Maintenance  
Oct 16 2019  
15:19:14

#### Track Configuration

Milepost Number : 293.40  
Milepost Suffix :  
Site Name : Norris Run, Va.  
AAR Billing Code : 00502  
AAR Site ID : P010039  
Track Direction (A-B) : East  
Alarm Side For Ch 1 : South  
Track Name : Single Track - Do not broadcast name  
Train Scan Direction : A<->B

Last Changed  
-----  
Set at Default Values  
From COM3, Local Maintenance  
Oct 16 2019  
15:19:14

#### Train Processing Setup

Ignore 1st ... Axles For Heat Alarms : 0  
Ignore 1st ... Axles For High/Wide Alarms : 0  
Announce Sequential Aux Alarms as From / To : Enabled  
Train Timeout : 10 s  
AEI Data Collection Timeout : 8 s  
Slow Train Speed Threshold : 7 MPH  
Default Axles for Calibrated Test Train : 200  
Minimum Axles for Train : 4  
Minimum Axles For High Railer : 4

Last Changed  
-----  
Set at Default Values

From COM3, Local Maintenance  
Oct 16 2019  
15:19:14

Scanner Test

Enable/Disable Scanner Test : Enabled  
Scanner Test Passing Level : 150 F  
# of Warnings Before Integrity Fail : 3  
Scanner Integrity Heater On Time : 4 s  
Enable/Disable Cold Train Test : Enabled  
Min Heat Level for Cold Train Test : 10 F  
Min Heat for Deviation Test : 10 F  
Min Axles on Train for Cold Train Test : 20  
Maximum Cold Trains : 2

Last Changed

-----

Set at Default Values  
From COM3, Local Maintenance  
Oct 16 2019  
15:19:14

Filter Configuration

Hot Bearing Filter : 13 Point Median Filter  
Peak Detect Filter : Enabled  
Peak Rising Threshold : 130 F  
Peak Falling Threshold : 10 F  
Peak Count Threshold : 2  
Corrected Bearing Temp. Threshold : 10 F  
Atypical integrity Fail Enable : Enabled  
Heat Profile Storage Limit : 100 F  
Sunshot Filter : Disabled  
Spring Sunshot Filter Start Date : Jan 15  
Spring Sunshot Filter Start Time : 12:00:00  
Spring Sunshot Filter End Time : 12:00:00  
Spring Sunshot Filter Expiration Limit : 14 Days  
Fall Sunshot Filter Start Date : Jan 15  
Fall Sunshot Filter Start Time : 12:00:00  
Fall Sunshot Filter End Time : 12:00:00  
Fall Sunshot Filter Expiration Limit : 14 Days  
Capture 16 Highest Profiles : Disabled

Last Changed

-----

Set at Default Values  
From COM3, Local Maintenance  
Oct 16 2019  
15:19:14

Modem Config Options

External Modem Init String : &F0 V0 S0=1 &C1 &D1 Q0 &W0

Last Changed

-----

Set at Default Values  
From COM3, Local Maintenance  
Oct 16 2019  
15:19:14

Radio Setup

Radio : Enabled  
Enable/Disable Radio Sharing : Enabled  
Sharing Signal State : Open  
Sharing Timeout : 120 sec  
Radio Squelch Signal State : Close  
Radio Squelch Timeout : 30 sec  
Enable/Disable Rebroadcast : Rebroadcast Timeout Enabled  
Rebroadcast Signal State : Close  
Rebroadcast Timeout : 10 min  
Radio Calibration Level : 0.81

Enable/Disable Auto Rebroadcast : Disabled  
Automatic Radio Enable Logic : Disabled

Last Changed

-----  
Set at Default Values  
From COM3, Local Maintenance  
Oct 16 2019  
15:19:14

Speech Flags

Broadcast Arrival A To B : Never  
Broadcast Arrival B To A : Never  
Broadcast Departure A To B : Always  
Broadcast Departure B To A : Always  
Broadcast Absolute Alarms : Enabled  
Broadcast Warm Alarms : Enabled  
Broadcast Differential Alarms : Disabled  
Broadcast Carside Alarms : Enabled  
Broadcast Hot Wheel Alarms : Enabled  
Broadcast Dragger Alarms : Enabled  
Broadcast High Alarms : Enabled  
Broadcast Wide 1 Alarms : Enabled  
Broadcast Wide 2 Alarms : Enabled  
Broadcast Signoff : Disabled  
Repeat On No Defect : Enabled  
Announce Alarms as Tone Only : Disabled  
Broadcast Slow Train : Enabled  
Broadcast Speed On Depart : Never  
Broadcast Total Cars : Disabled  
Broadcast Total Axles : Disabled  
Broadcast Train Length : Disabled  
Broadcast Total Alarms : Disabled  
Broadcast Power Failure : Disabled  
Broadcast Milepost Decimal : Enabled  
Broadcast Train Direction : Disabled  
Car Tag Broadcast Options : Announce Tag Data Only  
Broadcast Car axle With Car Tag : Enabled  
Optical Sensor Announcement : Announce Sensor as HIGH/WIDE  
Wire Sensor Announcement : Announce Sensor as SHIFTED  
Broadcast Temp on Arrival : Disabled  
Broadcast Temp on Departure : Disabled  
Broadcast Temp on Trip Points : Disabled  
Temperature Announcement Units : Standard  
Efficiency Test Mode : Disabled

Last Changed

-----  
Set at Default Values  
From COM3, Local Maintenance  
Oct 16 2019  
15:19:14

Speech Options

Print Voice Port : Disabled  
# Broadcast Times : 2  
Max Total Alarms : 13  
Max Total Draggers : 3  
Max Total High Load Alarms : 3  
Max Total Wide 1 Load Alarms : 3  
Max Total Wide 2 Load Alarms : 3  
Max Total Hot Bearing Alarms : 3

Last Changed

-----  
Set at Default Values  
From COM3, Local Maintenance

Oct 16 2019  
15:19:14

Ethernet Config Options

Dynamic IP Configuration : Disabled  
Ethernet User ID : PRS  
Ethernet Password : \*\*\*\*\*  
HBD Static IP Address : 192.168.1.100  
HBD Static Subnet Address : http://255.255.255.0  
HBD Static Gateway Address : 0.0.0.0  
HBD HTTP Port : 80  
HBD Telnet Port : 10000  
FTP IP Address : 0.0.0.0  
FTP User ID :  
FTP Password :  
FTP Final File Path : \  
FTP Train File Prefix :  
FTP Status File Prefix :  
FTP Final File Extension : HBD  
FTP IP Based File Naming : Disabled  
FTP Automated Reporting : Enabled  
FTP Status File Reporting : Disabled  
FTP Temp. Deviation For Status Reporting : 5 F  
FTP Report Format : S918  
FTP Train Resend Attempts : 3  
FTP Train Resend Time : 60 Seconds  
FTP Response Timeout : 60 Seconds

Last Changed

-----  
Set at Default Values  
From COM3, Local Maintenance  
Oct 16 2019  
15:19:14

SNTP Config Options

SNTP Sync Enabled : Disabled  
SNTP Primary Address : 192.168.1.100  
SNTP Secondary Address : 192.168.1.100  
Daylight Savings Enabled : Disabled  
Time Zone : GMT  
SNTP Server Check Frequency : 1800 Seconds

Last Changed

-----  
Railroad Staff  
From COM1, S918  
Jun 08 2023  
09:59:13

S918 Reporting Options

Automated Local Serial S918 Reporting : Enabled  
S918 Train Resend Attempts : 2  
S918 Train Resend Time : 120  
S918 Axle Spacing Format : Axle Spacing in ft.  
S918 Bearing Heat Format : Bearing Heat Degrees F  
S918 Delimiter Character : Space Character  
S918 Use Version 1.2 : Enabled  
S918 Send Train Index # Instead Of Sequence # : Enabled  
Report Heat Independent Of Train Direction : Disabled  
Use SW Flow Control In Menu Mode : Enabled

Last Changed

-----  
Railroad Staff  
From COM3, Local Maintenance  
Mar 23 2023  
14:19:31



Calibration

Calibrate Scanner 1 : Calibration Complete  
Last Changed On : 14:19:31 03-23-2023  
Calibrate Scanner 2 : Calibration Complete  
Last Changed On : 14:15:33 03-23-2023  
Ch1 Calibration Factor : 163  
Ch2 Calibration Factor : 140  
Print Calibration Values : Enabled  
Prompt For Ambient (Servo FS) : Disabled  
Calibrate Temperature Probe : Calibration Complete  
Temperature Factor : 100

Last Changed  
-----  
Railroad Staff  
From COM1, S918  
May 25 2023  
19:57:22

Alarm Limits

Hot Bearing High Limit : 170 F  
Warm Bearing High Limit : 255 F  
Differential Alarms : Enabled  
Differential Bearing High Limit : 115 F  
Differential Bearing Low Limit : 0 F  
Carside Alarms : Disabled  
Carside Low Limit : 255 F  
Carside Slope : 1.60  
Low Battery Threshold : 9.000 Volts  
High Load 1 Height : 19.2 ft  
High Load 2 Height : 19.2 ft  
Non Alarm High Load 2 Height : 19.2 ft

Last Changed  
-----  
Set at Default Values  
From COM3, Local Maintenance  
Oct 16 2019  
15:20:44

Train Reporting Options

Report All Trains : Yes  
Report Test Trains : Yes  
Print Car List With Summary : No  
Local Reporting Port : Disabled  
Remote Reporting Port : Disabled

Last Changed  
-----  
Set at Default Values  
From COM3, Local Maintenance  
Oct 16 2019  
15:21:39

Equipment Setup

Dragger : Enabled  
Radio : Enabled  
High Load 1 : Disabled  
High Load 2 : Disabled  
Wide Load 1 : Disabled  
Wide Load 2 : Disabled  
System Function : Function As a HBD Only  
Bearing Scanner : Enabled  
AC Monitor : Enabled  
Scanner Case Heater : Enabled  
AEI Data Forward : Disabled

Last Changed  
-----

Set at Default Values  
From COM3, Local Maintenance  
Oct 16 2019  
15:21:39

Signal	PConn - Pin	Normal State	Type	Sense Func Dir
Dragger	P1-1	Closed	Input (Recov)	Alm A<->B
High Load 1	P1-2	Closed	Input (Recov)	Alm A<->B
High Load 2	None			
Non Alm High Load 2	None			
Wide Load 1	P1-3	Closed	Input (Recov)	Alm A<->B
Wide Load 2	P1-4	Closed	Input (Recov)	Alm A<->B
Radio Claimed	P1-6	Open	Output	
Radio Available	P1-7	Open	Input (Recov)	
Squelch	P2-13	Closed	Input (Recov)	
Rebroadcast	P2-8	Closed	Input (Recov)	
Track Circuit	P1-8	Open	Input (Recov)	
Hot Bearing Alarm	None			
Hot/Cold Wheel Alarm	None			
Integrity Alarm	None			
Inverter Output	None			
RF Monitor	None			
Illegal Entry	None			
Slide Fence	None			
Battery Charger Monitor	None			

Last Changed

-----  
Set at Default Values  
From COM3, Local Maintenance  
Oct 16 2019  
15:21:39

#### Display Settings

Display Temperature with Ambient : No  
Remember Password Duration : 10 min  
Display Heat in Metric : No  
Display Distance in Metric : No  
Display Speed in Metric : No  
Display Loco Tag in Train List : No

Last Changed

-----  
Set at Default Values  
From COM3, Local Maintenance  
Oct 16 2019  
15:21:39

#### Heat Processing

Scanner Distance To Transducer A : 8 Inch  
Axle Window Size : 28 Inch  
Scanner To Axle Window (A Side) : 4 Inch

Norris Run, Va., Single Track MP:293.40  
Display > bybye

Invalid Command

Norris Run, Va., Single Track MP:293.40  
Display > eexxiitt