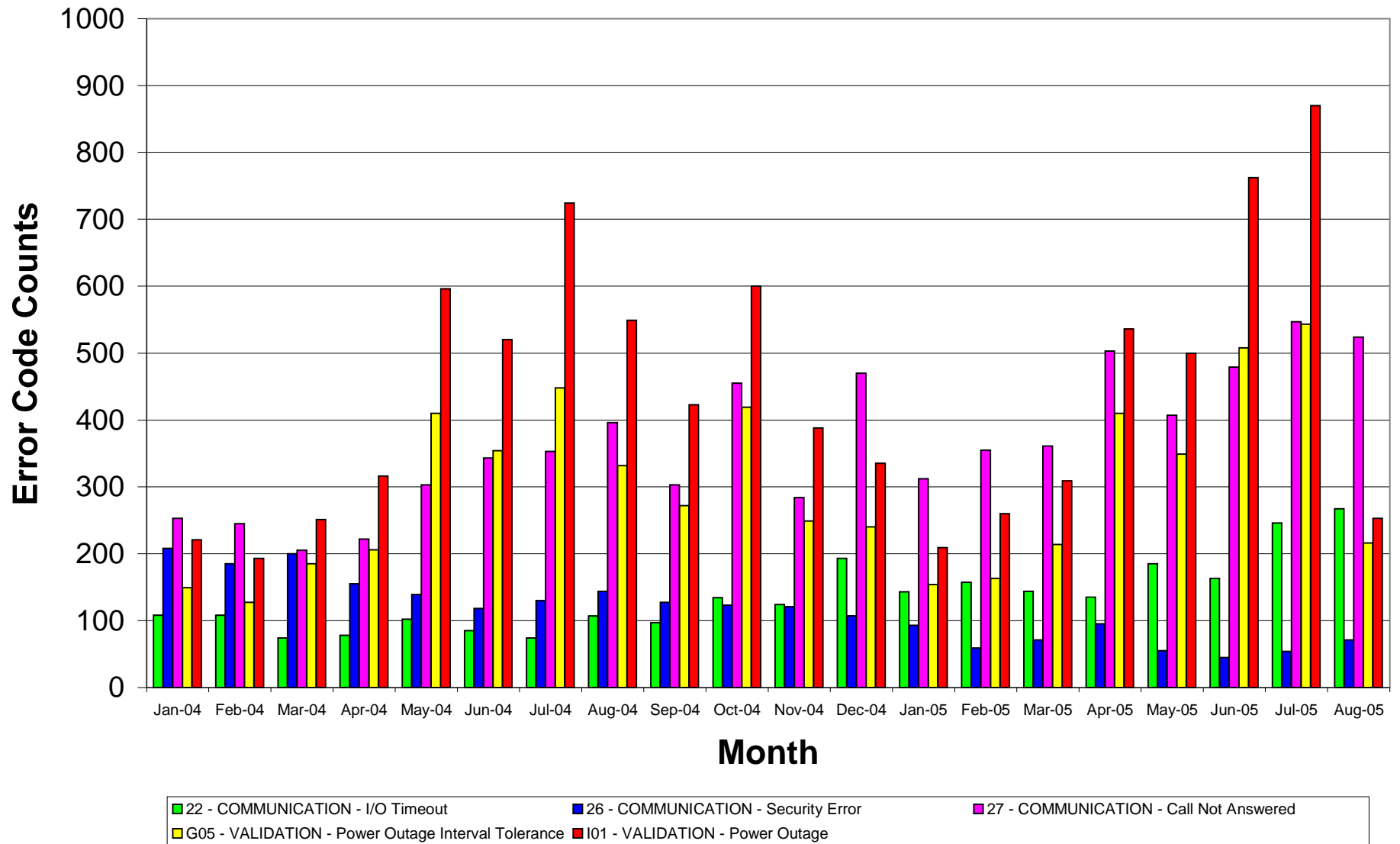


Monthly Summary of MTR Error Codes Included in Externally Issued MTRs - Top 5 Categories Only



Summary of MTR Error Codes Contained in Externally Issued MTRs from January-2004 to August-2005						
Error Type - Error Description	Monthly Averages			Working Day Averages		
	Max.	Min.	Average	(based on 20 working days / month)		
	Max.	Min.	Average	Max.	Min.	Average
1 - COMMUNICATION - Other Error	5.0	0.0	0.3	0.3	0.0	0.0
7 - COMMUNICATION - Recorder configuration does not match TIM block configuration(ints/hr or # channels)	8.0	2.0	5.0	0.4	0.1	0.3
10 - COMMUNICATION - ID mismatch if ID matching requested	26.0	0.0	9.3	1.3	0.0	0.5
11 - COMMUNICATION - Recorder Initialization Date is Zero (PSI protocol only)	1.0	0.0	0.1	0.1	0.0	0.0
21 - COMMUNICATION - Other Error	1.0	0.0	0.1	0.1	0.0	0.0
22 - COMMUNICATION - I/O Timeout	267.0	74.0	136.2	13.4	3.7	6.8
23 - COMMUNICATION - CRC/Checksum Bit Error on SDDR Response	11.0	1.0	4.9	0.6	0.1	0.2
24 - COMMUNICATION - Protocol Error	21.0	2.0	8.8	1.1	0.1	0.4
25 - COMMUNICATION - Port Error	6.0	0.0	0.7	0.3	0.0	0.0
26 - COMMUNICATION - Security Error	208.0	45.0	115.0	10.4	2.3	5.8
27 - COMMUNICATION - Call Not Answered	547.0	205.0	366.0	27.4	10.3	18.3
28 - COMMUNICATION - Carrier Detect Lost	24.0	2.0	11.0	1.2	0.1	0.6
50 - COMMUNICATION - No New Pulse Data to Read	18.0	0.0	4.9	0.9	0.0	0.2
56 - COMMUNICATION - Calculated and Recorder Data Stop Time	1.0	0.0	0.1	0.1	0.0	0.0
C02 - VALIDATION - Pulse Overflow	1.0	0.0	0.1	0.1	0.0	0.0
C07 - VALIDATION - Load Factor Limit Exceeded	3.0	0.0	0.2	0.2	0.0	0.0
G01 - VALIDATION - Interval Tolerance	21.0	2.0	9.5	1.1	0.1	0.5
G02 - VALIDATION - Energy Tolerance	22.0	1.0	9.7	1.1	0.1	0.5
G05 - VALIDATION - Power Outage Interval Tolerance	543.0	127.0	297.4	27.2	6.4	14.9
H01 - VALIDATION - Voltage Presence Check	2.0	0.0	0.1	0.1	0.0	0.0
H03 - VALIDATION - Energy Comparison, Main vs. Alternate	1.0	0.0	0.2	0.1	0.0	0.0
I01 - VALIDATION - Power Outage	870.0	193.0	440.8	43.5	9.7	22.0
I03 - VALIDATION - CRC/ROM/RAM Checksum Error	3.0	0.0	0.4	0.2	0.0	0.0
I04 - VALIDATION - Clock Error	15.0	0.0	4.9	0.8	0.0	0.2
I05 - VALIDATION - Reset Occurred	19.0	0.0	5.0	1.0	0.0	0.3
I06 - VALIDATION - Watchdog Timeout	1.0	0.0	0.4	0.1	0.0	0.0
I10 - VALIDATION - Data Missing	5.0	0.0	1.3	0.3	0.0	0.1
OTH - VALIDATION - Other	1.0	0.0	0.2	0.1	0.0	0.0
Totals:			1,432.1			71.6

Summary of MTR Error Codes Contained in Externally Issued MTRs by Calendar Month																				
	Month																			
Error Type - Error Description	Jan-2004	Feb-2004	Mar-2004	Apr-2004	May-2004	Jun-2004	Jul-2004	Aug-2004	Sep-2004	Oct-2004	Nov-2004	Dec-2004	Jan-2005	Feb-2005	Mar-2005	Apr-2005	May-2005	Jun-2005	Jul-2005	Aug-2005
1 - COMMUNICATION - Other Error	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0
7 - COMMUNICATION - Recorder configuration does not match TIM block configuration(ints/hr or # channels)	7	3	6	2	3	3	6	4	5	5	2	3	8	3	7	5	7	6	7	8
10 - COMMUNICATION - ID mismatch if ID matching requested	7	10	7	5	8	6	4	4	10	7	14	7	10	23	17	26	13	6	2	0
11 - COMMUNICATION - Recorder Initialization Date is Zero (PSI protocol only)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
21 - COMMUNICATION - Other Error	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 - COMMUNICATION - I/O Timeout	108	108	74	78	102	85	74	107	97	134	124	193	143	157	144	135	185	163	246	267
23 - COMMUNICATION - CRC/Checksum Bit Error on SDR Response	8	6	6	1	7	2	3	8	2	3	6	2	1	4	11	9	3	8	5	3
24 - COMMUNICATION - Protocol Error	8	7	7	8	7	4	7	3	2	3	5	4	12	9	16	7	16	18	21	12
25 - COMMUNICATION - Port Error	3	0	0	1	1	0	0	0	0	0	0	1	6	2	0	0	0	0	0	0
26 - COMMUNICATION - Security Error	208	185	200	155	139	118	130	144	127	123	121	107	93	59	71	95	55	45	54	71
27 - COMMUNICATION - Call Not Answered	253	245	205	222	303	343	353	396	303	455	284	470	312	355	361	503	407	479	547	524
28 - COMMUNICATION - Carrier Detect Lost	2	8	3	5	5	6	8	7	8	9	9	12	24	18	12	10	13	20	22	19
50 - COMMUNICATION - No New Pulse Data to Read	2	5	1	4	5	1	3	2	5	18	16	14	8	3	1	0	1	3	2	4
56 - COMMUNICATION - Calculated and Recorder Data Stop Time	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
C02 - VALIDATION - Pulse Overflow	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
C07 - VALIDATION - Load Factor Limit Exceeded	0	0	0	0	0	0	0	0	3	1	0	0	0	0	0	0	0	0	0	0
G01 - VALIDATION - Interval Tolerance	4	5	6	6	3	8	2	3	9	9	21	7	14	14	19	8	8	10	18	15
G02 - VALIDATION - Energy Tolerance	7	14	4	7	12	10	16	10	14	22	17	16	2	3	3	1	15	4	5	11
G05 - VALIDATION - Power Outage Interval Tolerance	149	127	185	206	410	354	448	332	272	419	249	240	154	163	214	410	349	508	543	216
H01 - VALIDATION - Voltage Presence Check	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
H03 - VALIDATION - Energy Comparison, Main vs. Alternate	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	1
I01 - VALIDATION - Power Outage	221	193	251	316	596	520	724	549	423	600	388	335	209	260	309	536	500	762	870	253
I03 - VALIDATION - CRC/ROM/RAM Checksum Error	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3	0
I04 - VALIDATION - Clock Error	2	0	2	0	1	1	1	1	1	2	3	4	13	12	15	5	5	7	13	10
I05 - VALIDATION - Reset Occurred	7	0	6	3	8	8	11	9	15	10	19	3	0	0	0	0	1	0	0	0
I06 - VALIDATION - Watchdog Timeout	1	0	0	0	1	0	0	0	1	0	0	1	0	1	0	1	0	0	0	1
I10 - VALIDATION - Data Missing	0	3	0	0	3	0	1	2	1	3	0	5	1	0	1	0	1	0	1	3
OTH - VALIDATION - Other	0	0	0	1	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1
Totals:	998	919	964	1,020	1,614	1,470	1,792	1,582	1,299	1,828	1,279	1,424	1,010	1,086	1,201	1,753	1,580	2,041	2,359	1,422
Percentage Change from Previous Month:		-7.9%	4.9%	5.8%	58.2%	-8.9%	21.9%	-11.7%	-17.9%	40.7%	-30.0%	11.3%	-29.1%	7.5%	10.6%	46.0%	-9.9%	29.2%	15.6%	-39.7%
Percentage Change from Same Month Previous Year:													1.2%	18.2%	24.6%	71.9%	-2.1%	38.8%	31.6%	-10.1%

Summary of MTR Error Codes Contained in Externally Issued MTRs by Calendar Month								
	Jan-2005	Feb-2005	Mar-2005	Apr-2005	May-2005	Jun-2005	Jul-2005	Aug-2005
Month								
Error Type - Error Description	Jan-2005	Feb-2005	Mar-2005	Apr-2005	May-2005	Jun-2005	Jul-2005	Aug-2005
1 - COMMUNICATION - Other Error	0	0	0	0	0	0	0	0
7 - COMMUNICATION - Recorder configuration does not match TIM block configuration(ints/hr or # channels)	8	3	7	5	7	6	7	8
10 - COMMUNICATION - ID mismatch if ID matching requested	10	23	17	26	13	6	2	0
11 - COMMUNICATION - Recorder Initialization Date is Zero (PSI protocol only)	0	0	0	1	0	0	0	0
21 - COMMUNICATION - Other Error	0	0	0	0	0	0	0	0
22 - COMMUNICATION - I/O Timeout	143	157	144	135	185	163	246	267
23 - COMMUNICATION - CRC/Checksum Bit Error on SSSDR Response	1	4	11	9	3	8	5	3
24 - COMMUNICATION - Protocol Error	12	9	16	7	16	18	21	12
25 - COMMUNICATION - Port Error	6	2	0	0	0	0	0	0
26 - COMMUNICATION - Security Error	93	59	71	95	55	45	54	71
27 - COMMUNICATION - Call Not Answered	312	355	361	503	407	479	547	524
28 - COMMUNICATION - Carrier Detect Lost	24	18	12	10	13	20	22	19
50 - COMMUNICATION - No New Pulse Data to Read	8	3	1	0	1	3	2	4
56 - COMMUNICATION - Calculated and Recorder Data Stop Time	0	0	0	0	0	0	0	0
C02 - VALIDATION - Pulse Overflow	0	0	0	0	0	0	0	1
C07 - VALIDATION - Load Factor Limit Exceeded	0	0	0	0	0	0	0	0
G01 - VALIDATION - Interval Tolerance	14	14	19	8	8	10	18	15
G02 - VALIDATION - Energy Tolerance	2	3	3	1	15	4	5	11
G05 - VALIDATION - Power Outage Interval Tolerance	154	163	214	410	349	508	543	216
H01 - VALIDATION - Voltage Presence Check	0	0	0	0	0	0	0	2
H03 - VALIDATION - Energy Comparison, Main vs. Alternate	0	0	0	1	0	0	0	1
I01 - VALIDATION - Power Outage	209	260	309	536	500	762	870	253
I03 - VALIDATION - CRC/ROM/RAM Checksum Error	0	0	0	0	1	2	3	0
I04 - VALIDATION - Clock Error	13	12	15	5	5	7	13	10
I05 - VALIDATION - Reset Occurred	0	0	0	0	1	0	0	0
I06 - VALIDATION - Watchdog Timeout	0	1	0	1	0	0	0	1
I10 - VALIDATION - Data Missing	1	0	1	0	1	0	1	3
OTH - VALIDATION - Other	0	0	0	0	0	0	0	1
Totals:	1,010	1,086	1,201	1,753	1,580	2,041	2,359	1,422
Percentage Change from Previous Month:	-29.1%	7.5%	10.6%	46.0%	-9.9%	29.2%	15.6%	-39.7%
Percentage Change from Same Month Previous Year:	1.2%	18.2%	24.6%	71.9%	-2.1%	38.8%	31.6%	-10.1%