

Long Time Overload Trip Times
AC-PRO Trip Unit
Utility Relay Company (Chagrin Falls, OH)

T.D. @ 6X	Error	1.5X	2X	3X	4X
2.0	-18%	26.24	14.76	6.56	3.69
	0	32.00	18.00	8.00	4.50
	+23%	39.36	22.14	9.84	5.54
2.5	-18%	32.80	18.45	8.20	4.61
	0	40.00	22.50	10.00	5.63
	+23%	49.20	27.68	12.30	6.92
3.0	-18%	39.36	22.14	9.84	5.54
	0	48.00	27.00	12.00	6.75
	+23%	59.04	33.21	14.76	8.30
3.5	-18%	45.92	25.83	11.48	6.46
	0	56.00	31.50	14.00	7.88
	+23%	68.88	38.75	17.22	9.69
4.0	-18%	52.48	29.52	13.12	7.38
	0	64.00	36.00	16.00	9.00
	+23%	78.72	44.28	19.68	11.07
4.5	-18%	59.04	33.21	14.76	8.30
	0	72.00	40.50	18.00	10.13
	+23%	88.56	49.82	22.14	12.45
5.0	-18%	65.60	36.90	16.40	9.23
	0	80.00	45.00	20.00	11.25
	+23%	98.40	55.35	24.60	13.84
5.5	-18%	72.16	40.59	18.04	10.15
	0	88.00	49.50	22.00	12.38
	+23%	108.24	60.89	27.06	15.22
6.0	-18%	78.72	44.28	19.68	11.07
	0	96.00	54.00	24.00	13.50
	+23%	118.08	66.42	29.52	16.61
6.5	-18%	85.28	47.97	21.32	11.99
	0	104.00	58.50	26.00	14.63
	+23%	127.92	71.96	31.98	17.99
7.0	-18%	91.84	51.66	22.96	12.92
	0	112.00	63.00	28.00	15.75
	+23%	137.76	77.49	34.44	19.37
7.5	-18%	98.40	55.35	24.60	13.84
	0	120.00	67.50	30.00	16.88
	+23%	147.60	83.03	36.90	20.76
8.0	-18%	104.96	59.04	26.24	14.76
	0	128.00	72.00	32.00	18.00
	+23%	157.44	88.56	39.36	22.14
8.5	-18%	111.52	62.73	27.88	15.68
	0	136.00	76.50	34.00	19.13
	+23%	167.28	94.10	41.82	23.52
9.0	-18%	118.08	66.42	29.52	16.61
	0	144.00	81.00	36.00	20.25
	+23%	177.12	99.63	44.28	24.91
9.5	-18%	124.64	70.11	31.16	17.53
	0	152.00	85.50	38.00	21.38
	+23%	186.96	105.17	46.74	26.29
10.0	-18%	131.20	73.80	32.80	18.45
	0	160.00	90.00	40.00	22.50
	+23%	196.80	110.70	49.20	27.68
10.5	-18%	137.76	77.49	34.44	19.37
	0	168.00	94.50	42.00	23.63
	+23%	206.64	116.24	51.66	29.06
11.0	-18%	144.32	81.18	36.08	20.30
	0	176.00	99.00	44.00	24.75
	+23%	216.48	121.77	54.12	30.44

T.D. @ 6X	Error	1.5X	2X	3X	4X
11.5	-18%	150.88	84.87	37.72	21.22
	0	184.00	103.50	46.00	25.88
	+23%	226.32	127.31	56.58	31.83
12.0	-18%	157.44	88.56	39.36	22.14
	0	192.00	108.00	48.00	27.00
	+23%	236.16	132.84	59.04	33.21
12.5	-18%	164.00	92.25	41.00	23.06
	0	200.00	112.50	50.00	28.13
	+23%	246.00	138.38	61.50	34.59
13.0	-18%	170.56	95.94	42.64	23.99
	0	208.00	117.00	52.00	29.25
	+23%	255.84	143.91	63.96	35.98
13.5	-18%	177.12	99.63	44.28	24.91
	0	216.00	121.50	54.00	30.38
	+23%	265.68	149.45	66.42	37.36
14.0	-18%	183.68	103.32	45.92	25.83
	0	224.00	126.00	56.00	31.50
	+23%	275.52	154.98	68.88	38.75
14.5	-18%	190.24	107.01	47.56	26.75
	0	232.00	130.50	58.00	32.63
	+23%	285.36	160.52	71.34	40.13
15.0	-18%	196.80	110.70	49.20	27.68
	0	240.00	135.00	60.00	33.75
	+23%	295.20	166.05	73.80	41.51
15.5	-18%	203.36	114.39	50.84	28.60
	0	248.00	139.50	62.00	34.88
	+23%	305.04	171.59	76.26	42.90
16.0	-18%	209.92	118.08	52.48	29.52
	0	256.00	144.00	64.00	36.00
	+23%	314.88	177.12	78.72	44.28
16.5	-18%	216.48	121.77	54.12	30.44
	0	264.00	148.50	66.00	37.13
	+23%	324.72	182.66	81.18	45.66
17.0	-18%	223.04	125.46	55.76	31.37
	0	272.00	153.00	68.00	38.25
	+23%	334.56	188.19	83.64	47.05
17.5	-18%	229.60	129.15	57.40	32.29
	0	280.00	157.50	70.00	39.38
	+23%	344.40	193.73	86.10	48.43
18.0	-18%	236.16	132.84	59.04	33.21
	0	288.00	162.00	72.00	40.50
	+23%	354.24	199.26	88.56	49.82
18.5	-18%	242.72	136.53	60.68	34.13
	0	296.00	166.50	74.00	41.63
	+23%	364.08	204.80	91.02	51.20
19.0	-18%	249.28	140.22	62.32	35.06
	0	304.00	171.00	76.00	42.75
	+23%	373.92	210.33	93.48	52.58
19.5	-18%	255.84	143.91	63.96	35.98
	0	312.00	175.50	78.00	43.88
	+23%	383.76	215.87	95.94	53.97
20.0	-18%	262.40	147.60	65.60	36.90
	0	320.00	180.00	80.00	45.00
	+23%	393.60	221.40	98.40	55.35
20.5	-18%	268.96	151.29	67.24	37.82
	0	328.00	184.50	82.00	46.13
	+23%	403.44	226.94	100.86	56.73

T.D. @ 6X	Error	1.5X	2X	3X	4X
21.0	-18%	275.52	154.98	68.88	38.75
	0	336.00	189.00	84.00	47.25
	+23%	413.28	232.47	103.32	58.12
21.5	-18%	282.08	158.67	70.52	39.67
	0	344.00	193.50	86.00	48.38
	+23%	423.12	238.01	105.78	59.50
22.0	-18%	288.64	162.36	72.16	40.59
	0	352.00	198.00	88.00	49.50
	+23%	432.96	243.54	108.24	60.89
22.5	-18%	295.20	166.05	73.80	41.51
	0	360.00	202.50	90.00	50.63
	+23%	442.80	249.08	110.70	62.27
23.0	-18%	301.76	169.74	75.44	42.44
	0	368.00	207.00	92.00	51.75
	+23%	452.64	254.61	113.16	63.65
23.5	-18%	308.32	173.43	77.08	43.36
	0	376.00	211.50	94.00	52.88
	+23%	462.48	260.15	115.62	65.04
24.0	-18%	314.88	177.12	78.72	44.28
	0	384.00	216.00	96.00	54.00
	+23%	472.32	265.68	118.08	66.42
24.5	-18%	321.44	180.81	80.36	45.20
	0	392.00	220.50	98.00	55.13
	+23%	482.16	271.22	120.54	67.80
25.0	-18%	328.00	184.50	82.00	46.13
	0	400.00	225.00	100.00	56.25
	+23%	492.00	276.75	123.00	69.19
25.5	-18%	334.56	188.19	83.64	47.05
	0	408.00	229.50	102.00	57.38
	+23%	501.84	282.29	125.46	70.57
26.0	-18%	341.12	191.88	85.28	47.97
	0	416.00	234.00	104.00	58.50
	+23%	511.68	287.82	127.92	71.96
26.5	-18%	347.68	195.57	86.92	48.89
	0	424.00	238.50	106.00	59.63
	+23%	521.52	293.36	130.38	73.34
27.0	-18%	354.24	199.26	88.56	49.82
	0	432.00	243.00	108.00	60.75
	+23%	531.36	298.89	132.84	74.72
27.5	-18%	360.80	202.95	90.20	50.74
	0	440.00	247.50	110.00	61.88
	+23%	541.20	304.43	135.30	76.11
28.0	-18%	367.36	206.64	91.84	51.66
	0	448.00	252.00	112.00	63.00
	+23%	551.04	309.96	137.76	77.49
28.5	-18%	373.92	210.33	93.48	52.58
	0	456.00	256.50	114.00	64.13
	+23%	560.88	315.50	140.22	78.87
29.0	-18%	380.48	214.02	95.12	53.51
	0	460.00	261.00	116.00	65.25
	+23%	570.72	321.03	142.68	80.26
29.5	-18%	387.04	217.71	96.76	54.43
	0	472.00	265.50	118.00	66.38
	+23%	580.56	326.57	145.14	81.64
30.0	-18%	393.60	221.40	98.40	55.35
	0	480.00	270.00	120.00	67.50
	+23%	590.40	332.10	147.60	83.03