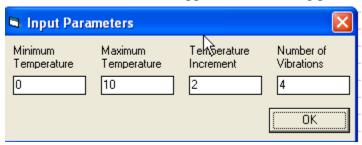INSPECTOWER 3 Release Notes
For version 2.0.0 as of December 21, 2016

1. ADDED: A new option that allows using the GUYMAST analysis engine to balance guy tensions for more appropriate values of initial tensions both in the input design tensions and in measured guy tensions. This should be very helpful, because the ideal design tensions will not always obtain in the field due to changes in terrain or guy slopes. Also, the guy tensions are not measured simultaneously, but over the course of the inspection. This method then allows the tower to balance the input measured tensions for a more reasonable result.

2. ADDED: The generation of Temperature/Tension/"Pulse" tables. Actually, the program will supply values for all the indirect methods supported by INSPECTOWER 3. The user supplies the following parameters:

INSPECTOWER 3 provides:

TENSION TEMPERATURE PULSE

GUY ELEV	GUY AZIM	GUY ATT AZIM	TEMP.	UNSTRESS LENGTH ft	GUY TENSION kips	NUM OF VIBR.	GUY PULSE sec	GUY SWING sec	TANGENT INTERCEPT ft
152.0	120.0	120.0	0.0	269.9611	1.41	4	5.25	4.72	6.93
			2.0	269.9674	1.39	4	5.29	4.76	7.04
			4.0	269.9737	1.36	4	5.35	4.81	7.19
			6.0	269.9800	1.33	4	5.40	4.86	7.33
			8.0	269.9863	1.31	4	5.45	4.91	7.47
			10.0	269.9926	1.28	4	5.50	4.95	7.61
152.0	240.0	240.0	0.0	267.9396	1.41	4	5.21	4.69	6.81
			2.0	267.9459	1.38	4	5.26	4.74	6.96
			4.0	267.9521	1.36	4	5.30	4.77	7.07
			6.0	267.9584	1.33	4	5.36	4.82	7.21
			8.0	267.9647	1.31	4	5.41	4.87	7.35
			10.0	267.9709	1.28	4	5.46	4.91	7.49
92.0	0.0	0.0	0.0	240.9586	1.19	4	5.11	4.60	6.57
			2.0	240.9643	1.16	4	5.19	4.67	6.77
			4.0	240.9699	1.13	4	5.24	4.72	6.91
			6.0	240.9756	1.10	4	5.32	4.78	7.10
			8.0	240.9812	1.07	4	5.38	4.85	7.29
			10.0	240.9868	1.05	4	5.45	4.91	7.47

3. FIXED: The Suggested Turnbuckle Gap Adjustment was, in error, based on the difference between the tension measured and the design tension at the

design temperature, without first adjusting the tensions to the same temperature. This has now been corrected. We apologize for this error and hope that users will go back and verify that the guy tensions are appropriate on the next inspection if not sooner. User should have noticed something wrong on the second, verification reading of tensions and alignment. This is exactly how the problem has come to light.