Title: Variance comparison analysis demonstrating standard deviation of each observed and predicted type of threshold-partitioned equation.

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|  |  | **Constant Flow** | **Decelerating Flow** |  |
| **Threshold-Partitioned Equation** |  | **Standard Deviation from Planimetry Measurement** | **95% Confidence Interval** | **Standard Deviation from Planimetry Measurement** | **95% Confidence Interval** | **p-value comparing standard deviation in constant flow to decelerating flow** |
| Total Power | Observed | 0.07 | 0.06 | 0.09 | 0.17 | 0.14 | 0.22 | <0.01 |
| Predicted | 0.08 | 0.06 | 0.10 | 0.09 | 0.08 | 0.12 | 0.32 |
| Total Power Above Threshold | Observed | 0.11 | 0.09 | 0.14 | 0.17 | 0.14 | 0.22 | 0.02 |
| Predicted | 0.10 | 0.08 | 0.13 | 0.14 | 0.11 | 0.17 | 0.79 |
| Total Power Increment Above Threshold | Observed | 0.17 | 0.13 | 0.22 | 0.46 | 0.38 | 0.59 | <0.01 |
| Predicted | 0.17 | 0.14 | 0.23 | 0.26 | 0.22 | 0.34 | 0.93 |
| Total Dynamic Power | Observed | 0.04 | 0.03 | 0.05 | 0.06 | 0.05 | 0.07 | 0.43 |
| Predicted | 0.05 | 0.04 | 0.07 | 0.07 | 0.06 | 0.09 | 0.62 |
| Dynamic Power Above Threshold | Observed | 0.11 | 0.09 | 0.14 | 0.12 | 0.10 | 0.15 | 0.86 |
| Predicted | 0.10 | 0.08 | 0.13 | 0.13 | 0.10 | 0.16 | 0.76 |
| Total Driving Power | Observed | 0.07 | 0.06 | 0.09 | 0.10 | 0.08 | 0.12 | 0.16 |
| Predicted | 0.11 | 0.09 | 0.14 | 0.11 | 0.09 | 0.14 | 0.80 |
| Driving Power Above Threshold | Observed | 0.17 | 0.14 | 0.23 | 0.14 | 0.11 | 0.18 | 0.02 |
| Predicted | 0.17 | 0.14 | 0.22 | 0.16 | 0.13 | 0.21 | 0.57 |