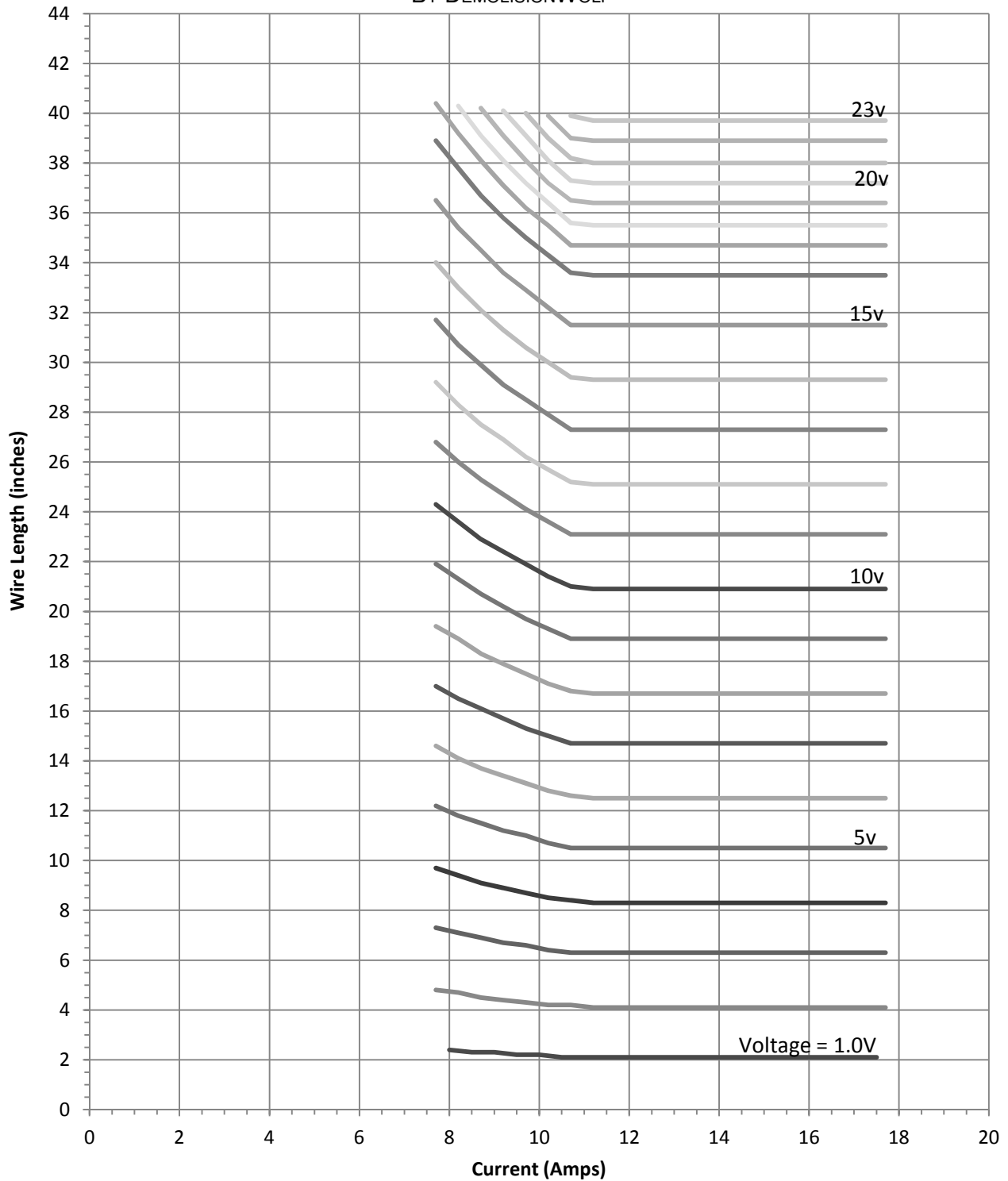


# HOT WIRE CUTTER DESIGN CURVES

By DEMOLISIONWOLF

0.015 dia Steel



\* To increase temperature of wire during testing, decrease length by 0.5" increments.

\*\* Temperatures Range of curves: 464°F (240°C) to 860°F (460°C)

\*\*\* Rounding of each variable in Trial & Error loop: Volts by 1, Current by 0.5, Length by 0.2

\*\*\*\* Equations:  $W=VI$ ,  $I=VR$ ,  $R=(PL)/A$ ,  $P=P(1+\alpha\Delta)$

Release 1, June 2013.