

### Natel Energy Technical: Findings Description

Generally, the test looks as if the head was placed at 3 distinct values of: 2.5m, 3.5m, and 4m for similar periods. Furthermore, for each head distance the nozzle position was decreased from 100% - 0% over similar time intervals. The shaft power has a direct correlation to these manipulations. The larger the head distance a larger max power is produced. This makes sense as the higher the head the more potential energy in the water to be converted into the motion of the shaft. The peak shaft power at a given head distance peaks when the nozzle position is at 100%, decreasing over each “step” of decreasing the nozzle position percentage.