CLAIMS

1. A system comprising:

an electrochemical cell comprising:

a housing having an inlet, an outlet, and a central axis; and

an anode-cathode pair disposed substantially concentrically within the housing about the central axis and defining an active area between an anode and a cathode of the anode-cathode pair, an active surface area of at least one of the anode and the cathode having a surface area greater than a surface area of an internal surface of the housing, the anode-cathode pair configured and arranged to direct all fluid passing through the electrochemical cell axially through the active area;

a source of electrolyte in fluid communication with the electrochemical cell, the electrochemical cell configured to produce one or more reaction products from electrolyte from the source of electrolyte and to output the one or more reaction products; and

a point of use for the one or more reaction products output by the electrochemical cell, wherein the one or more reaction products includes a disinfectant, and

wherein the disinfectant includes sodium hypochlorite.