CLAIMS

1. An apparatus comprising

a chamber body comprising a top and at least one side wall defining a plasma cavity;

a first gas inlet centrally located in the top of the chamber body, the first gas inlet configured to deliver a flow of a plasma comprising a deuterium-containing precursor to the plasma cavity;

a second gas inlet located in the at least one side wall of the chamber body, the second gas inlet configured to deliver a flow of the plasma comprising the deuterium-containing precursor to the plasma cavity;

a top coil with antennae in the top of the chamber body;

at least one side coil in the side of the chamber body; and

a multi-zone susceptor, each zone having independent temperature control.

2. The apparatus of claim 1, wherein the multi-zone susceptor has radially spaced zones.

3. The apparatus of claim 1, wherein the multi-zone susceptor comprises an inner zone and an outer zone, and each of the inner zone and outer zone comprise radially spaced zones.