1077-35-2291   **Tuwaner Hudson Lamar*** (`tlamar@morehouse.edu`), Morehouse College, 830 Westview Drive, S.W., Atlanta, GA 30314. *Analysis of a 2n-th Order Differential Equation with Lidstone Boundary Conditions - The Existence of Positive Solutions.*

The existence of positive solutions is established for a class of even order differential equations with even order boundary conditions. Exact and time dependent solutions are analyzed for the case n = 2. The theory of the existence of positive solutions for all n is proven using a method that shows the associated integral operator for the differential equation has a fixed point.