962-30-438 **Christopher J. Morgan*** (`cmorgan@ms.uky.edu`), Department of Mathematics, 902 Patterson Office Tower, Lexington, KY 40506-0027. *Density of a Class of Polynomials in the Class S_H^0 of Sense-Preserving Harmonic Functions, Preliminary Report.* Preliminary report.

In the paper *Harmonic Univalent Polynomials*, Complex Variables, Vol. 35, pp. 93–107, T.J. Suffridge introduced a class of sense-preserving harmonic polynomials defined on the unit disk in the complex plane. These polynomials may be written in the form $f = \overline{g} + h$, where g and h are polynomials in z that satisfy $g(0) = h(0) = g'(0) = 0$. Moreover, for a polynomial f of degree n in this class, f may be expressed in terms of g and h as follows: $h'(z) = Q(z) + e^{i\theta}(1-t)z\hat{Q}(z)$, $g'(z) = e^{i\beta}tz\hat{Q}(z)$, where θ, β, and t are real, $0 \leq t \leq 1$, $Q(z)$ is a polynomial in z of degree less than or equal to $n-2$ satisfying $Q(0) = 1$, and where $\hat{Q}(z) = z^{n-2}\overline{Q(1/\overline{z})}$. We will show that polynomials of this form are dense in the class S_H^0 of sense-preserving harmonic functions. (Received September 14, 2000)