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Waleed K. Al-Rawashdeh* (walrawashdeh@mtech.edu), Montana Tech, West Park Street, Butte, MT 59701. Schatten Class Weighted Composition Operators on Generalized Fock Spaces $\mathcal{F}^2_{\phi}(\mathbb{C}^n)$.

Let ψ be an entire self-map of the *n*-dimensional Euclidean complex space \mathbb{C}^n and *u* be an entire function on \mathbb{C}^n . A weighted composition operator induced by ψ with weight *u* is given by $(uC_{\psi}f)(z) = u(z)f(\psi(z))$, for $z \in \mathbb{C}^n$ and *f* is entire function on \mathbb{C}^n . Let $\phi \in C^2(\mathbb{C}^n)$ be a real valued function on \mathbb{C}^n such that $mw_0 < dd^c\phi < Mw_0$ holds uniformly pointwise on \mathbb{C}^n for some positive constants *m* and *M* where *d* is the usual exterior derivative, $d^c = \frac{i}{4}(\overline{\partial} - \partial)$, and $w_0 = dd^c |\cdot|^2$ is the standard Euclidean Kähler form on \mathbb{C}^n . The generalized Fock space $\mathcal{F}^2_{\phi}(\mathbb{C}^n)$ consists of all entire functions *f* on \mathbb{C}^n such that $||f||^2_{2,\phi} = \int_{\mathbb{C}^n} |f(z)|^2 e^{-2\phi(z)} dv(z)$ is finite. In this talk, we characterize the Schatten *p*-class of weighted composition operators acting on the generalized Fock space for 0 . (Received September 19, 2016)