For a contraction  $T \in B(H)$  of class  $(C_{\cdot 0})$ , that is  $SOT - \lim_{n\to\infty} (T^*)^n = 0$ , there exists a weak-\*-continuous functional calculus for  $H^{\infty}$ , the algebra of bounded holomorphic functions, first introduced by Sz.-Nagy and Foiaş. In 1986, T. Miller, R. Olin and J. Thomson proved a corresponding uniqueness statement: any continuous unital algebra homomorphism  $\pi : H^{\infty} \to B(H)$  with  $\pi(z) = T$  is weak-\*-continuous and hence uniquely determined by  $\pi(z)$ .

I will talk about a modified proof of the T. Miller, R. Olin and J. Thomson theorem. Using these modifications one can show for a large class of reproducing kernel Hilbert spaces  $\mathcal{H}_K$ , including the Drury-Arveson space or the Dirichlet space on the unit ball, that the multiplier functional calculus for K-contractions, satisfying in addition a suitable  $C_{.0}$ -condition, is weak-\*-continuous and hence uniquely determined. This is joint work with Michael Hartz.