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Noel Brady* (nbrady@math.ou.edu), Department of Mathematics, University of Oklahoma, Norman, OK 73019, and **Josh Barnard** (jbarnard@math.ou.edu). *Distortion of surface groups in free-by-cyclic groups.*

We give examples of polynomially distorted closed surface groups in CAT(0) free-by-cyclic groups, and of exponentially distorted closed surface groups in hyperbolic free-by-cyclic groups. (Received August 30, 2005)