Structural Recovery of Epoxy Films Subjected to CO\textsubscript{2} Pressure Jumps SHANKAR KOLLENGODU-SUBRAMANIAN, Texas Tech University, MATAZ ALCOUTLABI, University of Utah, LAMECK BANDA, The Dow Chemical Company, GREGORY MCKENNA, Texas Tech University — This group has previously investigated the impact of structural recovery and physical aging on thermodynamic and mechanical properties of polymers after temperature jumps and compared with plasticizer jumps [1]. Increasing plasticizer content depresses the glass transition temperature ($T_g$) in glassy polymers and this results in changes in the mechanical, optical and dielectric properties. Plasticizer jumps using a strong polar molecule have been previously studied by our group and have shown qualitatively similar behavior to temperature jump experiments [2]. In the current work, we report the results on plasticization effects using a weakly polar molecule (CO\textsubscript{2}) on the structural recovery of glassy polymers after plasticization jumps and compare the behavior with temperature formed glasses.