



Fig. 41 STAGS prediction of change in circumferential (hoop) curvature in Finite Element No. 259. (See Fig. 36 for the location of Finite Element 259.). No overall axial bending and no in-plane edge warping of the panel skin are permitted in the STAGS model. Compare the maximum change in hoop curvature at the design load, PA = 10.0 ($N_x = -1000$ lb/in) (about 0.465 from the STAGS model) with that predicted by PANDA2 (WDDPB = 0.354 as listed under Comment No. 7 in sub-sub-section 1.1.2). PANDA2 predicts a smaller value because PANDA2's local post-buckling theory is based on the assumption that the axial variation of displacement is sinusoidal (Fig.7).