Let $G$ be the dihedral group with $2p$ elements when $p$ is a prime number. In this talk I will give an equivariant CW structure for real representation spheres of $G$ and use that to compute the $RO(G)$-graded coefficients of equivariant cohomology with constant coefficients. If time permits, I will also explain the modifications needed for the Burnside ring case. (Received July 01, 2018)