Ioana Ghenciu* (ioana.ghenciu@uwrf.edu), 410 S. 3rd Street, River Falls, WI 54022. The Dunford-Pettis Property of Tensor Product Spaces.

We give sufficient conditions on Banach spaces $E$ and $F$ so that their projective tensor product $E \otimes \pi F$, and the duals of their projective and injective tensor products do not have the Dunford-Pettis property. We prove that if $E^*$ does not have the Schur property, $F$ is infinite dimensional, and every operator $T : E^* \to F^{**}$ is completely continuous, then $(E \otimes_\pi F)^*$ does not have the DPP. We also prove that if $E^*$ does not have the Schur property, $F$ is infinite dimensional, and every operator $T : F^{**} \to E^*$ is completely continuous, then $(E \otimes_\varepsilon F)^* \simeq L(E, F^*)$ does not have the DPP. (Received September 03, 2012)