Many realistic astrophysical problems can be treated as perturbations. It turns out that the NP formalism is a very successful tool in electromagnetic perturbations on Kerr background. We investigate stationary axisymmetric test electromagnetic field generated by static axisymmetric charge distribution and stationary axisymmetric tangential currents around Kerr black hole. We found a simple relation between electromagnetic field NP scalars $\varphi_0$ and $\varphi_2$ and then we got an explicit formula for the third NP scalar $\varphi_1$ by solving Maxwell equations with electromagnetic sources. Next, we investigate the problem of visualisation of electromagnetic field and develop a visualisation method on arbitrary background, which emphasize local field measured by an observer. We illustrate this method with several examples of electromagnetic fields.