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2D profiles of electron density (n_e) and temperature (T_e) for JT-60U divertor simulation with the SOLDOR/NEUT2D divertor code. The state of high n_e around the X-point and cold T_e near divertor targets observed in JT-60U experiment with the X-point MARFE is well reproduced (H. Kawashima *et al.*, Plasma and Fusion Research Vol.1, 031 (2006) June. <http://www.jspf.or.jp/PFR/>).