Overall Efficiency (n) for a cyclene Separator (an underflow) n = mass of solid particles removed afrom feed mass of solid particles present in the feed Uforunderflow V = \le mapi, U F for feed ≤ mapp, F factional Efficiency = n = mass of a given particle pize in underflore mass of a given particle size bin freed No = mapi, u = no mapi, f > n = mdr, v + mdr, v + €mypi, F ≤mypi, F form ean (b) $= \frac{(n_i)m_{dP_i,F}}{\leq m_{dP_i,F}} + \frac{(n_i)m_{dP_i,F}}{\leq m_{dP_i,F}} + \frac{(n_i)m_{dP_i,F}}{\leq m_{dP_i,F}} + \frac{(n_i)m_{dP_i,F}}{\leq m_{dP_i,F}}$ $\eta = \eta_1 \omega_1 + \eta_2 \omega_2$ + npwp -- + nnwn $M = \leq N_i \omega_i$ cuhere (wi)- mass fraction of pasticle having diameter dpi, in Feed