CHAPTER 6

CONCLUSIONS

Result of this work is packed absorber design and simulation program for hydrochloric vapor which is vented from hydrochloric acid storage tank.

In part of design, program is not high accurate but calculation results are in acceptable range, program accuracy is depend on availability of input data such as solar radiation and absorptivity values, condition of hydrochloric acid inside storage tank and operating condition of packed absorber which are required for calculation. Limit of program using is for pure hydrochloric acid storage tank at ambient temperature and smooth operating condition as non high surge intermittent hydrochloric acid flowing to tank.

In part of simulation, program is also required same accuracy data because mathematical model in simulation program are base on the same assumption in design program. It may be suitable if simulation program is used for design because simulation part is more easier to select in size of absorber and water flow rate for considering appropriate result in both size and operating condition of packed absorber.