Chapter VIII

RECOMMENDATIONS FOR FUTURE WORKS

Some recommendations for future study and application of pellet-flocculation clarification process are shown as follow:

1. The effect of various fluidized pellet-floc bed heights and various upflow velocities on the residual turbidity.

2. Effect of excess pellet flocs drawoff rate on the residual turbidity and balance of solids in the clarifier.

3. Pellet flocculation process with excess pellet flocs recirculation to the process.

4. Comparing the efficiency of pellet-flocculation purification by using various coagulant types, such as alum, $AlCl_3$, $FeCl_3$, and polyferric chloride and so on.

5. Comparing the efficiency of pellet-flocculation purification by using various polymer types such as cationic polymer, nonionic polymer, amphoteric polymer etc.

6. Possibility study and efficiency of lime-water softening treatment by pellet-flocculation clarification process.

7. Possibility study and efficiency of color removal by pellet-flocculation clarification process.

8. Possibility study and efficiency of clarification of MLSS by pellet flocculation process.