

## Reduced Cost Associated with Aeration by Processing Unit Phase Oriented Modeling Approach

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A rapid emerging ANAMMOX SBR system for wastewater treatment plant is basically focusing on the highest nutrient removal rate. Where the cost is associated with long processing time in terms of getting a stable operation of ANAMMOX system. Achieving a stable operation is both challenging as well as time consuming task. To overcome this problem, current study modeled a processing time oriented approach for achieving the desired nitrogen removal efficiency. For ensuring accuracy, another SBR acted model was incorporated into the processing time oriented model (PTOM). In comparison with the existing anammox system, a stable operation with an average removal rate of about 80% was achieved over 300 days.

Acknowledgements: “This work was supported by the 2018 Yeungnam University Research Grant. This work was also supported by Doosan Heavy Industries and Construction grant (Y16031) and by Priority Research Centers Program through the National Research Foundation of Korea (NRF) funded by the Ministry of Education (2014R1A6A1031189).”