



Fig. 8. PASCAL return line water level (Case 0 – Case 6)

5. Conclusions

To investigate the effect of piping pressure loss on PAFS performance, this study performed the sensitivity analysis for the pressure loss using SPACE 3.22. From the calculation results, it is found that the pressure loss in the piping may affect the heat exchanger performance and the system pressure significantly. In order to secure a reliable input model for PAFS, it is confirmed that further research on this is necessary.

REFERENCES

[1] S. S. Jeon, S. J. Hong, H. K. Cho, and G. C. Park, Development of Heat Transfer Model Package for Horizontal U-Shaped Heat Exchanger Submerged in Pool of Passive Safety System, Nuclear Technology, Vol. 196, pp.303~318, 2016.