

### 300MW급 순환유동층 보일러의 설계성능 검증

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The 340MWe scale circulating fluidized bed(CFB) boiler in Yeosu power plant is under construction. The circulating fluidized bed boiler in the Yeosu power plant has many differences with other domestic boilers in terms of scale and design. Evaluation of design parameters of the Yeosu CFB boiler should be required because the direct application of existing technology is limited. In this study, design characteristics of the Yeosu CFB boiler was summarized. And thermogravimetric analysis was conducted with comparing other rank of coal. Water-steam side heat absorption, flue gas temperature and heat transfer coefficient were calculated by heat and mass balance. Design parameters for the Yeosu CFB boiler were discussed with typical CFB design range.