



CASE STUDY severe service

DRAG HELPS SOLVE LEAKAGE AND IMPROVE PLANT EFFICIENCY

Customer – PT Freeport

Site - Indonesia

Requirement – Being the largest copper and gold mining company in Indonesia, PT Freeport Indonesia has built a 195MW coal-fired power plant in Irian Jaya, Indonesia, to support its copper and gold mining operations. Freeport recently encountered a severe leakage problem with feedwater recirculation valves and level control difficulties with boiler drum level control valves, which was supplied by Fisher with 2 valves in parallel design. CCI was asked to solve the problem but the challenges were that process parameters are not available while the datasheets of existing Fisher valve are missing.

Solution - Leveraging the CCI Valve Doctor® knowledge and experience, CCI worked with PT Freeport to retrieve cold and hot start up data to conduct a detailed analysis of their operational profile. By adopting DRAG® technology in the 100DLC, a combined startup and main valve were proposed for drum level control, to replace the problematic 2-in-parallel philosophy. Additionally, a 100DR with MSS SP-61 tight shutoff was used for feedwater recirculation to arrest the frequent leakage problems. This approach solved the leakage problems and enabled PT Freeport to realize substantial operational cost saving each year. In addition to the operational benefits, PT Freeport will also save on inventory cost, improve startup time and realize a reduced risk of changing to manual control mode and thus eliminating drum level upsets.



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CONTROL VALVES

