

# POWER GENERATION

## Boiler Feed Pump Applications



FACILITY:	APPLICATION PROBLEM:	SOLUTION:	SUCCESS SINCE:
Power Plants in: Southeast USA	Boiler Feed Pump Applications - High Swing Check Failure Rate	DFT® Model WLC®BF Check Valve Custom for Boiler Feed Service	2012

### Challenge:

There were 3 Power Plants located in Southeast USA experiencing issues with a high failure rate of their swing check valves in their boiler feed pump applications. Due to the large amount of cycle time on the changing load of the boiler during daily operation, the swing check valves installed were frequently failing and needed to be replaced.

DFT was asked to evaluate the failure rate and provide solutions for alternative valve replacements.

### Solution:

The DFT® Model WLC® BF Severe Service Check Valves were the solution for the applications as follows:

- Boiler feed pump discharge, WLC-BF 10" 1500# LLC Body

The valves were installed over three years ago and have all been functioning well. During a fall outage the valves were removed for evaluation and anticipated repair. When the valves were removed, and upon inspection, there was no visible or measurable wear of the valve components. The internal trim was measured and compared with original drawings.

Additional valves have been installed for the following applications.

- Boiler feed pump, WLC-BF 6" 1500# LLC Body
- Boiler feed pump IP (Intermediate Pressure) discharge WLC-BF 2 ½" 900/1500# LLC Body

### DFT® Model WLC® BF

### Custom Boiler Feed Service Check Valve



### Features:

- Custom COLMONOY® Coated Shaft
- WC9 Carbon Steel Body
- Severe Service Trim
- Note: The SS option (for digester applications) is available with the DFT Models GLC, WLC, Excalibur and Y-Calibur check valves.

Whatever your size, pressure or piping configurations, DFT has the valve that's right for you.

**For more information or assistance  
Please contact your local distributor or a DFT  
Sales Representative in your area.**

*Contact DFT for a solution to your problem.*