STEAM BLOW

There are several different steam blowing techniques at your disposal, and B&W Fluid Dynamics will work with the client decide which method is the best approach for each situation.

High Pressure Cyclic Steam Blowing

This is the traditional method used to clean out steam piping

- System is pressured to pre-engineered level by firing the boiler.
- Quick – opening blowing valve is opened, once pre-engineered pressure is achieved, releasing higher pressure steam through target system and out to atmosphere
- Repeat procedures until clean polished target plates are achieved.

Considerations

- Extreme reaction forces (proper pipe design and restraint precautions must be taken when using this method)
- Disturbance Factors (DF) for very short periods of time

Low Pressure Continuous Steam Blowing

Continuous flow of steam from the boiler or steam header to achieve steady state blowing conditions

Pressures are maintained low level (typically less than 150 psig). Target velocities are transonic at the permanent pipe outlet. Disturbance Factor (CFR) is high at lower mass flow rates of steam.

Considerations

- High Confidence
- Steady State Steam Conditions run at same level throughout.
- Reactionary forces on temporary pipe are low.
- Safer and less stressful on the system than High Pressure Cyclic.

The Right Combination:

1. **B&W Engineering:** Delivers the most detailed drawings and procedures utilizing an advanced modeling system. Directed and Generated by Registered Professional Engineers

2. **B&W Equipment:** latest innovations, designed and built to ASME standards

3. **B&W Project Execution:** Field Technical Representatives have the most knowledge, experience, and professionalism in the industry

Hybrid Steam Blowing

Combination of high or low pressure steam blow and The Aqua Milling ® Process

Considerations:

- Demin water consumption cut by ~50%
- Duration of Steam blow reduced by 45-55%
- Fuel to generate steam cut by 50%

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