

impeller is installed the wrong way around, or the linkages are accidentally swapped around during maintenance, it could have a significant impact on the fan's performance.

Conclusion

This paper provides an overview of some common poor practices and oversights while performing general maintenance. The first step before attempting any maintenance on a boiler should be to consult the Operating and Maintenance (O&M) Manual of the boiler. This manual should be kept up-to-date in terms of the modifications made to the boiler and if any of the ancillary equipment has been replaced. Even people with a lot of boiler-related experience should consult the manual to familiarise themselves with any special features and requirements.

Often, small changes that may seem insignificant can have a substantial influence on the boiler's performance and reliability. Therefore, the maintenance personnel should ideally understand the design intent, as well as the basic operating principles of a boiler.

REFERENCES

Note: The paper is based on boiler inspection reports performed by John Thompson Engineers. However, due to client confidentiality, the author is not at liberty to provide a reference list.