STEAM BLOW CLEANING: PRELIMINARY INFORMATION REQUEST

Thank you for your interest in the steam blow cleaning service provided by SABSCO. This document lists the information that we need at the quotation stage to enable us to produce a full commercial and technical proposal for the steam blowing.

Normally it will take us about 5 to 10 working days to produce our proposals for steam blowing although this can sometimes be shortened if a quotation is required urgently.

1: DRAWINGS

The drawings may be supplied as hard (paper) copies or in electronic file format, whichever is most convenient.

1. Piping & instrumentation diagrams (P&ID) for all steam systems to be cleaned. These will be used to produce flow diagrams for steam blows.
2. Isometric construction drawings (ISO) and/or piping plans drawings for all steam piping to be cleaned. Note that, for systems including a boiler or HRSG, the piping in the boiler OEM scope must be included. These drawings will be used during the detailed design calculations.
3. Plot plans for the site to assist with locating the major equipment for steam blowing.
4. General arrangement drawings, plans and elevations, of the steam system piping. Where the steam system includes a steam turbine, GA drawings around the steam turbine are particularly useful.

2: GENERAL ENGINEERING AND PLANT INFORMATION

1. Information on the type, dimensions and Cv values for all valves in the steam lines to be cleaned. This is particularly important for any pressure reducing and desuperheating (PRDS) valves in the steam system as some designs of these valves are very difficult to steam blow.

2. Information on the design of any valve blow out adaptors to be used. Note that for steam turbines, the blow-out adaptors are normally supplied by the steam turbine OEM. For PRDS valves, the valve manufacturer will normally supply blow-out and blow-through kits, as required.

3. Maximum pressure and temperature limitations for all steam systems to be blown, including settings of all system pressure relief valves.

4. Steam load heat and flow balances under all operating conditions envisaged. This is to enable SABSCO to calculate the ‘worst case’ for steam blowing.

5. Information on the acceptance criteria for blowing, including target plate material and acceptable impact data. Normally provided by the steam turbine supplier.

6. Information on the type of steam blowing required. SABSCO offer both conventional, pressure cycle steam blowing and continuous ‘silent’ steam blowing using their dBMin process.

7. Information on the quantity of demineralised (boiler feed quality) water available. The basic information needed is the maximum CONTINUOUS production rate and the maximum useable storage capacity available on site.

8. Information on the maximum capacity of the demin. water transfer pumps used to supply water from the demin storage system into the feed water system.

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9. For long steam lines, we need to know if there are any bellows type expansion joints installed. These bellows normally have a maximum allowable steam velocity and we need to know what that velocity is.

10. For systems where the steam lines to be blown are not close-coupled to a boiler of HRSG, we need information on the source of steam that will be used for the steam blowing. If the source is an existing steam header, we need to know the normal steam conditions in the header and what is the maximum amount of steam that can be taken from the header for steam blowing.

11. For steam blows where an existing steam header is the source of steam for steam blowing, we need to know how the connection will be made to the header. If the connection is downstream of an isolating valve, can that valve be used to regulate the amount of steam used for steam blowing? Note that we would normally provide a temporary flow metering orifice to regulate the steam supply to prevent possible damage to permanent valves.

12. Information on the availability of raw water supplies. For continuous steam blowing, raw water is used to quench attemperate the steam before atmospheric discharge and a raw water supply rate of 20 – 40% of the steam flow rate is needed. Any quality water except sea water is suitable for quench attemperation.

3: CLIENT/SITE SPECIFIC INFORMATION

1. Details of any noise level restrictions for the site.
2. Full address and location of the site.
3. Contact details and client distribution list for correspondence.
4. Any other specific requirements, such as restrictions to working hours.
5. Scope of work required, listing all lines required to be steam blown. Note that if this is not supplied, SABSCO will produce a typical scope of work for discussion.
6. Programme information, including estimated dates for steam blowing.

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