

**Steam & Air Blowing Service Company (SABSCO) Ltd.**

**AIR BLOW CLEANING: PRELIMINARY INFORMATION REQUEST**

Thank you for your interest in the air blow cleaning service provided by SABSCO. The information listed in this document is what we need at the quotation stage to enable us to produce a full commercial and technical proposal for the air blow cleaning of an HRSG steam system.

This is a generic list only and is based on conventional power station designs. If the steam systems have other features, such as export steam or gas turbine steam injection, then some additional information may be needed before we will be able to produce a full technical proposal.

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

For the pre-commission cleaning of power generation steam systems, air blowing is normally combined with chemical cleaning to deliver the overall standard of cleanliness required for turbine quality steam. SABSCO, in conjunction with Solarca S.L., offer the ICAB system of integrated Chemical Cleaning and Air Blowing. To provide an ICAB quotation, additional information relating to the chemical cleaning is required. Details of the additional information needed for the chemical cleaning are given on the Solarca document ICAB Chemical Cleaning: Preliminary Information Request.

**1: DRAWINGS**

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

1. Piping & instrumentation diagrams (P&ID) for all steam systems to be cleaned. These will be used to produce flow diagrams for air blows.
2. Isometric construction drawings (ISO) and/or piping plans drawings for all steam piping to be cleaned. Note that 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 air blowing.
4. General arrangement drawings, plans and elevations, of the steam piping around the steam turbine.

**2: GENERAL ENGINEERING AND PLANT INFORMATION**

1. System volume information for all HRSG sections and components. Normally, for a triple-pressure with reheat HRSG, the following volumes are required:
  - HP Drum
  - HP Superheaters (total)
  - HP Economisers (total)
  - HP Evaporator, including downcomers if applicable.
  - IP Drum
  - IP Superheaters (total)
  - IP Economisers (total)
  - IP Evaporator, including downcomers if applicable
  - Reheater
  - LP Drum
  - LP Superheater
  - LP Economiser
  - LP Evaporator, including downcomers if applicable

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2. Information on the type, dimensions and Cv values for all valves in the steam lines to be cleaned.
3. Information, including drawings, on the design of the valve blow out adaptors supplied.
4. Maximum design pressure and temperature limitations for all steam systems to be blown, including settings of all system pressure relief valves.
5. Steam load heat and flow balances under all operating conditions envisaged. This is to enable SABSCO to calculate the 'worst case' for air blowing.
6. Information on the acceptance criteria for blowing, including target plate material and acceptable impact data. Normally provided by the steam turbine supplier.

**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 air 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 air blowing.