

IMPLEMENTATION OF ANALYSIS OF VIBRATIONS TO ESTABLISH THE BASE LINE

Operational objectives:

- Measure and set the reference spectra that may serve as a standard of comparison for future readings and thus determine the severity of the condition of the equipment.
- Have a maximum of 2% of the equipments with the most critical severity before failing.
- Anticipate repairs, supplies of spare parts, maintenance tooling and technical personnel with at least 6 weeks before losing the operative capacity of an equipment.
- Establish the optimal frequency of vibration readings and have a written procedure for each rotating equipment.
- Interaction between Maintenance and Operation staff in vibration monitoring.
- Measure monthly and quarterly assertiveness of the human group Operation and Maintenance, in assessing the severity of equipment

Methodology:

- 1. VIBRATION READINGS
 - a. Gathering of the following written information:
 - Name of equipment,
 - Operating speeds
 - Type of equipment:
 - Frequencies equipment failures
 - b. Attachment of bronze pads for triaxial accelerometer readings
 - c. Vibration readings
 - d. Detailed determination of fault frequencies and
 - e. Adjusting bandwidths
 - f. Determining the most suitable setup
- 2. MAINTENANCE PERSONNEL TRAINING AND OPERATING SEQUENCES TO PERFORM EQUIPMENT DAILY-WEEKLY-MONTHLY-BIMONTHLY READINGS OF CRITICAL AND NON CRITICAL EQUIPMENT.
- 3. SPECTRUM ANALYSIS WITH MAINTENANCE PERSONNEL TO ESTABLISH THE BASE LINE OF EACH EQUIPMENT.

Logistics:

Duration:

- The baseline requires at least three readings, at similar speeds, loads and temperatures of operation
- Up to 10 equipments per day with preliminary diagnosis can be made and after three readings, the detailed baseline could be achieved, in order to establish the reference spectrum.

Price: Depending on the scope of the survey, there will a specific proposal for each service.