

The East Ohio Gas Company  
Wage & Salary

JOB DESCRIPTION

Job Title:

BETA ANALYZER TECHNICIAN

Reports To:

CHIEF COMPRESSOR ENGINEER

GENERAL PURPOSE:

To perform duties of a Beta Analyzer; to perform engine/compressor analysis using electronic analyzer.

TYPICAL DUTIES AND RESPONSIBILITIES:

- A. Performs duties normally done by a Compressor Station Technician at normal reporting location, as assigned, such as the following: repairs, maintains, installs and adjusts main compressor units and associated auxiliary equipment; diagnoses problems and repairs electrical, mechanical, pneumatic and hydraulic control equipment and control systems; may lead Compressor Station Mechanics.
- B. Performs engine/compressor analysis using electronic Beta analyzer, so as to locate equipment operating problems and/or predict the causes of such problems:
  1. Adapts to electronic analyzer and all related components to the reciprocating compressors throughout the Compressor Stations Division; travels to the various compressor stations to accomplish this and other duties related to the analyzer.
  2. Takes data from the analyzer and processes reliable and accurate photographs (including ignition traces, vibration patterns, ultrasonic patterns, P-V diagrams, etc.)
  3. Checks for all gas and combustion leaks, using the ultrasonic lead detection device on the analyzer.
  4. Calculates horsepower, compressor efficiency, brake mean effective pressure of the power cylinders, primary and secondary voltage in the ignition system, and engine speed.
  5. Makes minor adjustments and repairs to the compressor units, while performing the electronic engine analysis; corrects problems on the basis of analysis results plus own resources and judgment.
  6. Directs those who assist, (such as a Compressor Station Mechanic, Technician) in the adaptation of the analyzer equipment and the minor repair work while analysis is being performed.
  7. Writes the results of each analysis (using a formal reporting procedure, but communicating clearly) so as to develop a history of operating patterns of each unit; recognizes similarities and changes in successive analysis reports, and utilizes such histories in reporting analysis results and making recommendations.

8. Reports analysis results and makes recommendations about the complete analysis to the Superintendent, Compressor Stations, and the Chief Compressor Engineer.
9. Acts in an advisory capacity to both co-workers and Chief Compressor Engineers insofar as analyzer equipment and analysis results are concerned.
10. Tests the electronic analyzer equipment periodically and makes necessary repairs and adjustments as required.
11. Makes some outside contacts with other companies (sister companies, transmission companies).
12. Performs any and all duties in compressor stations for which they are qualified.

10-20-77