COMPLEX MEASUREMENTS FOR THE DETERMINATION OF POLLUTANT EMISSIONS AT THE TIMISOARA (16 MĂCIN STR.), ORAVIŢA, LUPENI AND MARGHITA UNITS OF THE COMPANY TRW AUTOMOTIVE SAFETY SYSTEMS

Goal of the project

Identifying the level of pollution generated by specific units in the company. Thus, by analyzing the results, the specialists from TRW Automotive Safety Systems can adapt and reconsider their technologies, in order to optimize/ reduce the emissions' levels/concentrations, if they are not appropriate and in correlation with the emission control legislation.
Thus the company can maintain its leading position in the frame of all Romanian production companies, knowing that TRW Automotive Safety Systems gained by 2018 the third place for cooperation in Romania (diploma offered by ListaFirme.ro, 2018).

Short description of the project

TESTS:

1.Gravimetric tests (dust) (emissions);
2.Electrochemical tests;
3.Flame ionization tests;
4.Physical tests.

SCOPE:

1. Determination of total dusts (emissions).
2. Determination of combustion gas concentrations (O2, CO, CO2, H2S, SO2 and CH4)
3. Determination with flame ionization detector of COV / COT.
4. Determination of physical parameters (pressure, speed and flow).

FEEDBACK:

The client is offering a feedback by filling in a specific file, that enables us to improve the offer and cooperation activity for the future.

Implementation period

23.02.2018-22.02.2019

Main activities

- Identification of the most representative regimes for measuring
- Identification of the safety conditions for the workers
- Preparation of the measuring points (measuring plan)
- Calibration of the instruments
- Measurements and verification of the results
- Calculations
- Conceiving the report (Technical Bulletin) in accordance with the RENAR specifications

Results

Technical Bulletins- more than 25/year, in all the working points identified by the Agency of Environmental protection as to be analyzed/monitored on specific intervals, during representative technological episodes.

Applicability and transferability of the results

- Development of a strategy of monitoring, according to the specific needs of the client.
- Raising the importance of UPT on the free market of collaboration with industrial units.
- Offering to the members of the team a modality to perform, also in industrial cooperation, in addition to the main duties as researcher or university teacher.
- Maintaining the quality for next RENAR accreditation.
- Developing skills and knowhow for all personnel involved.

Financed through/by

TRW Automotive Safety Systems

Research Centre

Research Centre for Thermal Machines and Equipments, Transportation and Environmental Pollution Control,

Research team

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