DUTY STATEMENT

Employee Name: Vacant	Current Date: July, 2024
Classification: Air Resources Engineer	Position #: 673-910-3735-073
Division/Office: Emissions Certification and Compliance Division/On-Board Diagnostics Branch	CBID: R09
Section: Diesel On-Board Diagnostics Section	
Supervisor Name: Frederico Garza	Supervisor Classification: Air Resources Supervisor I

I certify that this duty statement represents an accurate description of the essential functions of this position.	
Supervisor:	Date:

I have read this duty statement and agree that it represents the duties I am assigned.	
Employee:	Date:

SPECIAL REQUIREMENTS OF POSITION (IF ANY):

☒ Designated under Conflict-of-Interest Code.
☐ Duties performed may require pre-employment physical.
☐ Duties performed may require drug testing.
☒ Duties require participation in the DMV Pull Notice Program.
☐ Requires the utilization of a 32-pound self-contained breathing apparatus.
☐ Operates heavy motorized vehicles.
☐ Requires repetitive movement of heavy objects.
☒ Works at elevated heights or near fast-moving machinery or traffic.
☐ Performs other duties requiring high physical demand. (Explain below):
☐ Duties require use of hearing protection and annual hearing examinations.

SUPERVISION EXERCISED

☒ None	☐ Lead Person
☐ Supervisor	☐ Team Leader

FOR SUPERVISORY POSITIONS ONLY: Indicate the number of positions by classification that this position DIRECTLY supervises: N/A

Total number of positions in Section/Branch/Office for which this position is responsible: N/A

FOR LEADPERSONS OR TEAM LEADERS ONLY:

Indicate the number of positions by classification that this position LEADS: N/A

MISSION OF SECTION:

The Diesel On-Board Diagnostics (OBD) Section is responsible for administration of the OBD program for diesel vehicles and engines. OBD systems are required to detect faulty emission control components and illuminate the check engine light at the appropriate time relative to emission increases. Responsibilities include reviewing and approving manufacturers' OBD system certification applications, evaluating the in-use performance of OBD systems for properly detecting faulty emission control components and illumination of the Malfunction Indicator Lamp (MIL) at the appropriate time relative to emission increases, testing for proper communication with scan tools that interrogate the system for fault and other system information, coordination of enforcement activities such as remedial actions and or recalls of problem vehicles, and coordination with inspection and maintenance programs.

Headquarters and reporting location for this position located at our So Cal Headquarters office: 4001 Iowa Avenue, Riverside CA 92507.

CONCEPT OF POSITION:

Under direction of the Air Resources Supervisor I, within the Diesel OBD Section of the OBD Branch in the Emissions Certification and Compliance Division, Air Resources Engineer (ARE) is responsible for carrying out the duties and responsibilities outlined below. involving OBD equipped vehicles. Travel as required to perform the duties of this position.

% OF TIME	RESPONSIBILITIES OF POSITION
25%-E	Review and approve manufacturers' applications for current model year certification of OBD system designs. This involves interfacing with engineers and other representatives from vehicle manufacturers; performing engineering analyses on information provided, making decisions on the acceptability of manufacturers' diagnostic system designs by applying the relevant regulations and using sound principles of engineering,

	science, and statistics; and writing approval letters documenting the certification status of these systems.
20%-E	Review future emission control technologies and proposed OBD solutions for compliance with the OBD requirements. This involves interfacing with engineers and other representatives from vehicle, engine, and component manufacturers to understand the technologies and using sound principles of engineering, science, and statistics to determine the effect on emissions and whether proposed diagnostic algorithms robustly detect malfunctions that affect emissions or OBD system performance.
10%-E	Review post-production certification and running change information for compliance with the OBD technical and enforcement regulations. Communicate with manufacturers to establish a correct understanding of the information and potential compliance issues. Develop resolutions for proposal to management where issues are identified.
10%-E	Design and install emission control system faults in vehicles, operate vehicles to execute diagnostics, and collect diagnostic system data used to determine whether the OBD system detects the faults in accordance with regulatory requirements. Serve as a project engineer during emission testing in the laboratory to determine whether malfunctions are detected at the proper tailpipe emission levels. Record and analyze OBD system data during the emission testing process.
10%-E	Investigate and develop future OBD regulatory requirements and program guidance documents for internal and external use.
5%-E	Compile data from OBD testing. Use sound principles of engineering, science, and statistics to evaluate data and OBD system performance for compliance with the OBD regulatory requirements. Prepare reports on test program findings. Develop recommendations to management to resolve issues discovered during OBD testing.
5%-E	Evaluate non-compliances identified by testing or manufacturer disclosure and determine root cause, assess in-use impacts, and determine appropriate remedies. Work with the legal department and affected manufacturers to invoke vehicle recalls, fines, or other remedial actions when such actions are merited including preparation of settlement agreements and other needed reports.
5%-E	Travel and conduct heavy-duty OBD audit programs of manufacturer self-testing. Follow up with manufacturer to ensure manufacturer resolution regarding any non-compliance found during auditing.
5%-E	Configure test equipment, conduct tests and collect data on the OBD communication capability of new and in use vehicles using scan tools and engineering test equipment. Review the data to verify compliance with standardization requirements, common scan tools, and inspection and

	maintenance equipment. involving OBD equipped vehicles. Travel as required to perform the duties of this position.
5%-M	Support OBD system testing, data collection, engineering analysis, and technical consulting on OBD requirements and design for other programs involving OBD equipped vehicles. Perform other duties as required that fall under the scope of this classification.