

**DUTY STATEMENT**

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Employee Name: Vacant	Current Date: May,2024
Classification: Air Resources Engineer	Position #: 673-210-3735-010
Division/Office: Enforcement	CBID: R09
Section: Diesel Equipment Enforcement Section	
Supervisor Name: Erin Shields	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: Operate and deploy PEAQs Mobile Deployment Platform including occasional lifting of objects under 50 lbs.
- Duties require use of hearing protection and annual hearing examinations.

**SUPERVISION EXERCISED**

<input checked="" type="checkbox"/> None	<input type="checkbox"/> Lead Person
<input type="checkbox"/> Supervisor	<input type="checkbox"/> Team Leader

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ASD/HRB-12 (REV. 03/2020) PAGE 2 OF 3

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: N/A

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

MISSION OF SECTION: The Diesel Programs Enforcement Branch (DPEB) is responsible for enforcement of California's on and off-road diesel regulations and programs. Examples include the Heavy Duty Inspection and Maintenance Program known as Clean Truck Check, Statewide Truck and Bus, Off-Road Equipment, and Transport Refrigeration Unit Regulations.

The Diesel Equipment Enforcement Section (DEES) is responsible for enforcing those regulations by inspecting and investigating vehicles and equipment to verify compliance. Staff conduct field investigations and comprehensive audits of regulated entities to determine compliance, issue violations, and attempt to resolve those violations through a mutual settlement process. Inspections and investigations may originate from complaints or data derived output. In addition, DEES conducts planning, development, and organization of roadside or stationary deployment of Portable Emission Acquisition System (PEAQS), investigates deliberate tampering of emission control systems and on-board diagnostics (OBD), and engages in community outreach and environmental justice concerns related to diesel vehicles and off road equipment.

The programmatic responsibilities of DEES will evolve over time as current programs mature and new programs are implemented.

CONCEPT OF POSITION:

Under direction of an Air Resources Supervisor I, the Air Resources Engineer (ARE) is responsible for assisting with the development, administration, and implementation of California Air Resources Board's (CARB's) next generation remote emission measurement devices for diesel sources. Using engineering principles, the ARE will provide engineering expertise in the development and assembly of advanced field enforcement technologies, including CARB's Portable Emissions Acquisition System or (PEAQS). The ARE will deploy and maintain these systems, and conduct enforcement inspections and investigations either in the field or from an office or telework setting. The ARE will apply engineering principles to detect mal-maintenance or deliberate tampering of heavy duty vehicle emission control systems, including both physical hardware and the vehicle on-board diagnostics (OBD) system. The ARE will interact and work with a broad range of internal and external stakeholders including scientists, engineers, and attorneys, as well as industry and environmental organizations. In addition, the ARE may be tasked with assisting other teams within the Diesel Programs Enforcement Branch and support special project assignments as needed. Travel will be required.

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<b><u>% OF TIME</u></b>	<b><u>RESPONSIBILITIES OF POSITION</u></b>
25% - E	Develop and implement enhanced field investigation technologies for mobile emission sources such as PEAQS, including computer programming in order to develop and support these programs. Develop, procure, construct and maintain field inspection tools utilizing sensor technology, detectors, and source-specific emissions measurements to maximize and target enforcement efforts. Coordinate & maintain relationships with outside agencies for the deployment and maintenance of enforcement equipment.
25% - E	Deploy, maintain, and troubleshoot stationary remote sensing technologies such as PEAQS. Apply engineering and scientific methods and principles to evaluate, organize, write and implement standard operating procedures, project protocols, reports and technical papers. Collaborate with internal and external stakeholders to develop protocols to deploy and maintain enforcement equipment, safety procedures, and standard operating procedures.
25% - E	Conduct inspections or investigations of truck and bus fleets subject to the the Heavy Duty Inspection & Maintenance Program (HD I/M), the Statewide Truck and Bus Regulation, the Transport Refrigeration Unit Regulation, and other diesel rules under the purview of the Division as needed. Properly maintain complete and accurate records of inspections and samples. Deploy and operate the PEAQS Mobile Platform.
10% - E	Develop methods for detecting deliberate tampering with emission control systems on heavy duty vehicles, including both hardware and software (OBD modifications), in order to identify vehicles that are operating with non-compliant emission control systems.
10% - E	Serve as a resource of technical information on advanced field enforcement technologies related to heavy-duty diesel vehicles, regulations to the affected industry, other government employees, and the public; prepare and deliver technical and informational presentations and review current and proposed regulations for enforceability.
5% - M	Prepare other required reports, correspondence, assist with Division projects, attend on and off-site trainings and audio/visual presentations.