

**DUTY STATEMENT**

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Employee Name: Vacant	Current Date: 7/16/2024
Classification: Air Pollution Specialist	Position #: 673-710-3887-084
Division/Office: AQPSD/MSAB	CBID: R09
Section: On-Road Model Development	
Supervisor Name: Sara Forestieri	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**

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

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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:

MISSION OF SECTION: The On-Road Model Development Section of the Mobile Source Analysis Branch assesses on-road motor vehicle activity and emission factors to develop fundamental emissions inventory estimates and models. Major projects include supporting emission inventory estimates for regulations, continued development and refinement of EMFAC, the development of emission factors particularly for heavy-duty vehicles, as well as the analysis and forecasting of California's freight and passenger transportation system. The section is also responsible for the development of new programming platforms upon which next generation of EMFAC modules will be based.

CONCEPT OF POSITION:

Under direction of an Air Resources Supervisor I, this APS will serve as the lead for supporting on-road emissions inventory work in EMFAC for the new national ambient air quality standard (NAAQS) for particulate matter (PM). The APS will update on-road mobile source emission inventory data, including emission factors and vehicle population and activity through targeted data collection, for exhaust and non-exhaust primary PM2.5 and precursor pollutants. The APS will estimate emission reductions from the State's mobile strategy for the new PM2.5 nonattainment areas, along with documenting the SIP assessment assumptions, methodology, and results. Specific duties include:

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<b>% OF TIME</b>	<b>RESPONSIBILITIES OF POSITION</b>
40%-E	Perform a comprehensive evaluation of base year emissions. Work with metropolitan planning organizations (MPO) and other CARB divisions to update forecasted emissions using the latest activity or vehicle miles traveled data. Account for the impact of adopted and under development regulations. Coordinate with rulemaking staff to assess the impact and timelines of under development regulations. Provide emissions inventory results, including reductions from key regulations, to modeling and SIP teams, as well as air districts and other external stakeholders.
30%-E	Assist with the section's overall emissions inventory responsibilities. Develop new and recommended updates to model formulations, modeling techniques and input data, which will form the basis of the on-road emissions inventory for SIP. Code logic and data into computer models, Write model evaluation and development work plans to be implemented independently or by contractor and/or in-house teams. Meet with clients, contractors, and stakeholders to discuss emission estimation methodologies and results. Participate in public workshops. Develop and deliver oral presentations as needed.
25%-E	Characterize emissions from non-exhaust sources, such as brake and tire wear, from different vehicle weight classes and technology types (e.g., battery electric vehicles). Stay abreast with current extramural and internal research efforts to improve the agency's understanding of these emissions.
5%-M	Perform other duties as may be necessary to meet the needs of the On-Road Model Development Section. Respond to ad-hoc requests and inquiries. Assist section manager in planning, organizing, and implementing section programs. Advance the agency's equity and community engagement goals, e.g., through participation in workgroups. Occasional travel may be required.