



STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

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August 1, 2013

Ms. Agata McIntyre
Northwest Clean Air Agency
1600 South Second Street
Mount Vernon, WA 98273-5202

Re: Second Tier Petition by PACCAR Technical Center

Dear Ms. McIntyre:

The Washington State Department of Ecology's Air Quality Program (Ecology) has completed our review of health risks from diesel engine exhaust particulate (DEEP) emissions from a new engine test laboratory proposed by PACCAR Technical Center (PACCAR) in Skagit County, Washington.

Ecology's review indicates that the proposed project could result in an increased cancer risk of up to five in one million (5×10^{-6}) at the maximally impacted residential location, which occurs about 100 meters to the southwest of the PACCAR property. Ecology's review of non-cancer hazards indicates that the chronic non-cancer hazard quotient attributable to PACCAR's DEEP emissions is much lower than unity (1) meaning that chronic non-cancer adverse health effects are unlikely. Because the increase in cancer risk attributable to the new engine test facility alone is less than the maximum risk allowed by a second tier review of 10 in one million, and the non-cancer hazard is acceptable, the project is approvable under WAC 173-460-090.

Ecology also considered the cumulative impacts of DEEP emissions in the area. Emissions from PACCAR's new laboratory and other local and regional sources of DEEP could result in lifetime increased cancer risk of up to approximately 46 in one million (46×10^{-6}) at residential locations in the vicinity of PACCAR. The cumulative non-cancer hazard quotients at these locations are much lower than unity (1) meaning that non-cancer adverse health effects are unlikely.

Based on the review of PACCAR's second tier petition, Ecology recommends approval of the proposed project because project related health risks are permissible under WAC 173-460-090, and the project has satisfied all requirements of a second tier analysis. Ecology recommends that you incorporate our findings as part of your ambient air impacts analysis and you may begin the public comment period when you are ready to do so.

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If you would like to discuss this project further, please contact Gary Palcisko at (360) 407-7338 or gary.palcisko@ecy.wa.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "Jeff Johnston". The signature is fluid and cursive, with the first name "Jeff" and last name "Johnston" clearly distinguishable.

Jeff Johnston, Ph.D.
Science and Engineering Section Manager
Air Quality Program

jj/te

Enclosure

cc: Billie Arthur, PACCAR
Chip Halbert, Landau Associates