



**4910-59-P**

**DEPARTMENT OF TRANSPORTATION**

**National Highway Traffic Safety Administration**

**[Docket No. NHTSA 2017-0070]**

**Request for Approval of a New Information Collection**

**AGENCY:** National Highway Traffic Safety Administration, DOT.

**ACTION:** Notice and request for comments

**SUMMARY:** Before a Federal agency can collect certain information from the public, it must receive approval from the Office of Management and Budget (OMB). In compliance with the Paperwork Reduction Act of 1995, this notice announces that the Information Collection Request (ICR) abstracted below is being forwarded to the Office of Management and Budget (OMB) for review and comments. A Federal Register Notice with a 60-day comment period soliciting comments on the following information collection was published on November 23, 2016.

**DATES:** Written comments should be submitted on or before **[INSERT DATE 30 DAYS AFTER DATE OF PUBLICATION IN THE FEDERAL REGISTER]**.

**ADDRESSES:** Send comments to the Office of Information and Regulatory Affairs, Office of Management and Budget, 725-17th Street, NW, Washington, D.C. 20503, Attention: NHTSA Desk Officer.

**FOR FURTHER INFORMATION, CONTACT:** For access to background documents, contact Eric Traube, Office of Vehicle Safety Research, National Highway Traffic Safety

Administration, U.S. Department of Transportation, 1200 New Jersey Avenue, SE, Washington, DC, 20590; Telephone: 202-366-5673.

**SUPPLEMENTARY INFORMATION:** Under the Paperwork Reduction Act of 1995, before a Federal agency can collect certain information from the public, it must receive approval from the Office of Management and Budget (OMB). In compliance with these requirements, this notice announces that the following information collection request has been forwarded to OMB. In the November 23, 2016 Federal Register<sup>1</sup>, NHTSA published a 60-day notice requesting public comment on the proposed collection of information. We received no comments.

*OMB Control Number:* Not assigned.

*Title:* Driver Alcohol Detection System for Safety – Field Operational Test

*Form Numbers:* None

*Type of Review:* New Information Collection.

*Abstract:*

NHTSA and the Automotive Coalition for Traffic Safety (ACTS) began research efforts in February 2008 to try to find potential in-vehicle approaches to address the problem of alcohol-impaired driving. Members of ACTS comprise motor vehicle manufacturers representing approximately 99 percent of light vehicle sales in the U.S. This cooperative research partnership, known as the Driver Alcohol Detection System for Safety (DADSS) Program, is exploring the feasibility, potential benefits of, and public policy challenges associated with a more widespread use of non-invasive, in-vehicle technology to prevent alcohol-impaired driving. NHTSA and ACTS outlined a research program to assess the state of detection technologies that are capable of measuring blood alcohol concentration (BAC) or Breath Alcohol Concentration

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<sup>1</sup> 80 FR 24314 (April 30, 2015).

(BrAC) and to support the creation and testing of prototypes and subsequent hardware that could be installed in vehicles. As part of the research program, NHTSA and ACTS will build research vehicles that include both a breath- and touch-based sensor in order to evaluate the potential implementation and integration of both breath- and touch-based sensor technologies.

This collection, which shall commence on September 1, 2017, pertains to a field operational test (FOT) of both the breath- and touch-based research vehicles developed under this program. A key to the establishment of effective, unobtrusive in-vehicle alcohol detection systems is an understanding of real-world use of the technology. This FOT will allow NHTSA and ACTS to evaluate the functionality of these research vehicles under varying operating conditions by having study participants drive DADSS research vehicles through some preset routes. The research vehicles are the first vehicles of this kind, and will be used to gather data regarding sensor validity and reliability. This study will provide a greater understanding of drivers using the technology under varying environmental conditions. Data collected from the DADSS FOT will be used to further refine the DADSS Performance Specifications and evaluate system performance; specifically cases when the system may detect alcohol when none is present.

*Description of the Need for the Information and Proposed Use of the Information:* The collection of information consists of: (1) an eligibility interview (2) multi-day FOT of DADSS sensors, and (3) post-test day questionnaire.

The information to be collected will be used for the following purposes:

- *Eligibility interview* will be used to obtain self-reported eligibility information, including health, driving/criminal record, and drinking behavior, that participants must meet to qualify for participation in this study (e.g., must hold valid driver's license). Participants will also be asked to provide the height and weight.

- *The DADSS FOT* will be used to establish effective non-invasive, in-vehicle alcohol detection systems through an understanding of the real-world use of the technology. Breath- and touch-based sensor data along with video data (for in-vehicle validation of sensor data) collected from the DADSS FOT will be used to further refine the DADSS Performance Specifications and evaluate subsystem/sensor performance. This study will provide a greater understanding of drivers using the technology under varying environmental conditions.
- *Post-test day questionnaire(s)* will be used to get information about any technical difficulties or issues drivers may have had with the DADSS-FOT vehicles at the end of each test day.
- *Participants must:*
  - Be at least 21 years of age
  - Hold a valid U.S. or Canadian driver's license
  - Have no more than one (1) driving infraction and/or conviction on their driving record for the previous three years
  - Be free of any criminal conviction in their past including criminal driving offenses
  - Be willing to work at least five (5) days per week for 12 consecutive weeks during a three-month data collection cycle
  - Meet health criteria:
    - i. Cannot have a substance abuse condition including alcoholism
    - ii. Cannot have a history of neck or back conditions which still limit their ability to participate in certain activities.

- iii. Cannot have a history of brain damage from stroke, tumor, head injury, recent concussion, or disease or infection of the brain
  - iv. Cannot have a current heart condition which limits their ability to participate in certain activities
  - v. Cannot have current uncontrolled respiratory disorders or disorders requiring oxygen
  - i. Cannot have had epileptic seizures or lapses of consciousness within the last 12 months
  - ii. Cannot have chronic migraines or tension headaches (no more than one per month during the past 12 months).
  - iii. Cannot have current problems with motion sickness, inner ear problems, dizziness, vertigo, or balance problems
  - iv. Cannot have uncontrolled diabetes (have they been recently diagnosed or have they been hospitalized for this condition, or any changes in their insulin prescription during the past 3 months)
  - v. Must not have had any major surgery within the past 6 months (including eye procedures).
  - vi. Cannot currently be taking any medications or supplements that may interfere with driving ability (i.e., cause drowsiness or impair motor abilities).
  - vii. Must not be pregnant or planning to become pregnant.
- Have normal (or corrected-to-normal) hearing and vision.
  - Self-report that they are able to read, write, speak and understand English.

- Be excluded if anyone in their household works in or is retired from any of the following businesses, occupations, or industries, which may constitute a conflict of interest with the DADSS-FOT:
  - i. The police force or another law enforcement agency, working as a police officer, corrections officer, or probation officer
  - ii. A newspaper, magazine, radio or television station, or related website or online news site
  - iii. An advertising, marketing, or public relations agency
  - iv. A market or public opinion research company
  - v. The automobile or automotive industry
  - vi. Liquor sales or hospitality, such as bartending
  - vii. Law, such as a lawyer or attorney, or working at a law firm, or in the legal profession
  - viii. The federal, state, or county Departments of Transportation
- Be excluded if anyone in their immediate family has been a victim of drunk driving, or if they personally know someone that has been a victim.

*Estimated Number of Respondents:* 600

*Estimated Time per Response:* Completion of the eligibility interview is expected to take 15 minutes. Following the eligibility/demographic interview, 480 of the 600 initial participants are expected to attend a one- (1) hour orientation session and participate in the FOT. On a given test day, the DADSS FOT will require four (4) hours per day, including a post-test day interview.

*Estimated Total Annual Burden:* Fifteen (15) minutes for each ineligible participants and 241 hours per participant (115,830 hours total).

*Estimated Frequency:* One (1) time for the eligibility interview and 60 times (days) for the DADSS-FOT and post-test day interviews.

**Table 1. Estimated Burden Hours**

<b>Instrument</b>	<b>Number of Individuals</b>	<b>Frequency of Responses</b>	<b>Number of Questions</b>	<b>Estimated Individual Burden</b>	<b>Total Estimated Burden Hours</b>	<b>Total Cost of Burden Hours over 24-month study period</b>
Eligibility/Demographic Interview	600	1	32	15 min	150 hr	\$ 1,087.50*
Orientation	480	1	N/A	1 hr	480 hr	\$ 9,360.00**
FOT including post-test questions	480	650 tests per participant	8 (test-day questions)	4 hr/day for 60 days	115,200 hr	\$2,246,400 .00**
TOTAL					115,830 hr	\$ 2,258,685.00

\* Interviewees will not be compensated for the eligibility/demographic interview, but we calculate the estimated burden hour cost to the public using the prevailing Federal minimum wage rate of \$7.25/hour.

\*\*Participants in the FOT will be compensated \$19.50 per hour for their time in the orientation and the FOT study and this rate was used to calculate their burden hours.

**AUTHORITY:** The Paperwork Reduction Act of 1995, 44. U.S.C. Chapter 35, as amended; 5 CFR Part 1320; and 49 CFR 1.95.

Issued in Washington D.C.

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Nathaniel Beuse

Associate Administrator for

Vehicle Safety Research

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