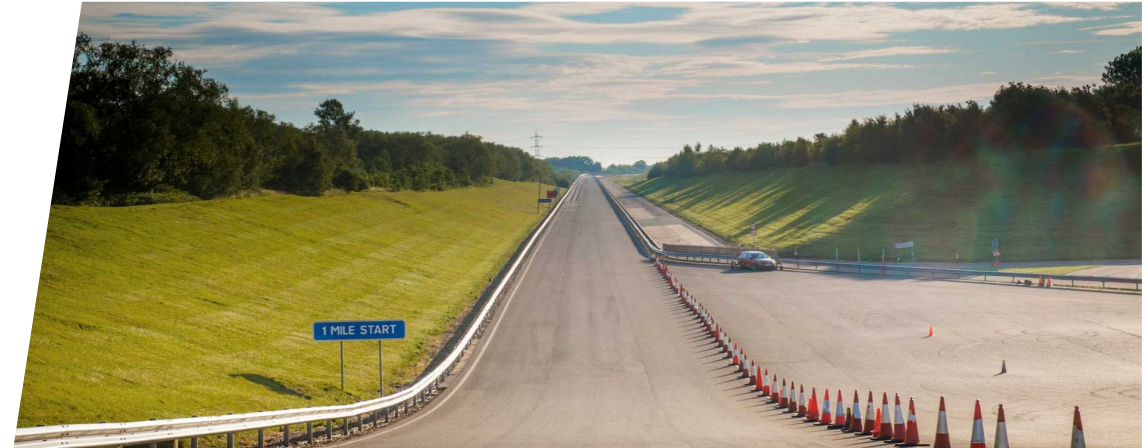


Informal Document GRBP-78-34  
78<sup>th</sup> GRBP, 30 Aug – 01 Sept 2023  
Agenda Item 3  
Submitted by OICA



## ASEP / RD-ASEP Study

*Interim Report to 78<sup>th</sup> GRBP  
September 2023*



## Study Outline

- UTAC was tasked by ACEA to perform a study on ASEP and RD-ASEP.
- The study consists of two work packages:
  - **Work Package 1**  
Did the implementation of ASEP as it currently stands lead to any design changes?
  - **Work Package 2**  
Collect data from the RD-ASEP monitoring and provide a basic analysis as input to the IWG on RD-ASEP;
- Joint study of CPs and Automotive Industry
  - France, Germany, Japan, The Netherlands, OICA (ACEA)

## Work Package 1 Description

- Main Question:
  - Did the introduction of ASEP - initiated since July'2016 under UN R51.03 - lead to changes in vehicle design?
- Therefore,
  - A literature study shall be performed to get information about the awareness of the public on ASEP.
  - A questionnaire has been made for OEMs.
  - A questionnaire for mainly GRBP CPs
    - ➔ **We need the support from CPs to learn their perspective on ASEP.**
  - A test program on vehicles will carried out in Autumn 2023

## QUESTIONS to OEMs

1. In which region is your manufacturing company located?
2. Which vehicle segments do you specifically target?
3. What has been the average annual production volume of passenger vehicles (M1) over the last 5 years?
4. What has been the average annual production volume of commercial vehicles (N1) over the last 5 years?
5. Which specific vehicle categories (UN-ECE system) do you produce?
6. In relation to the vehicle category (PMR) you specified, how significant is the impact of ASEP on your vehicle design?
7. Which type of propulsion system is utilized in your vehicles?
8. Which specific vehicle classes do you manufacture?
9. In the case of your vehicles impacted by ASEP, which specific components underwent changes in their design targets?
10. How do you prove compliance with ASEP towards the TAA?
11. When you carry out ASEP tests, which test method do you use?
12. Which ASEP tests method is more favorable for your specific cars?
13. How do you deal with the Annex 7 mandatory Reference Sound Assessment (RSA)?
14. Do you follow - although not mandatory - the guidance of GRB68-03 (GRBP Document for Reference only) ?
15. How do you rate ASEP? Is it considered an important tool for single vehicle noise abatement?

## QUESTIONS to CPs / Authorities

1. You are a representative for a Contracting Party from which region?
2. As in your function as representative for a Contracting Party, you are from ...
3. Do you (or your country, or your administration) accept SoC only, or do you request additional information?
4. Do you (or your country, or your administration) request application of GRB 68-03 (document for reference on ASEP interpretation) for approval in your country?
5. For EU vehicle registration, are you aware that under single vehicle approval according article 44 Regulation (EU) 858/2018, still the older vehicle regulation UN R51.02 is applicable (which means that ASEP is no mandated )
6. For EU members only, how many vehicles using the single vehicle approvals are registered per year in your country?
7. Do you carry out vehicle sound emission tests according UN R51 for market surveillance?
  - If YES, do you check ASEP as well?
    - If YES, do you check extended ASEP according to paragraph 6.2.3 as well?
8. Have you (or your country which you represent) received explicit complains from citizens about noisy motor vehicles (not motorcycles) as single noise events?
9. If YES, how have the complains developed during the last 5 years (tendency: increase, stable, decrease)
10. Do you think or do you have evidence that ASEP has helped to make noisy single vehicles more quiet?
11. How do you rate ASEP? Is it an important tool for single vehicle noise abatement?

## **WP 1 Test program:**

- Tests according to UN R51.03 and RD-ASEP based on the test program outlined by the IWG RD-ASEP in 2017/2018.
- 8 vehicles targeted.
- If possible, twin pairs of vehicles shall be tested, one of it approved under UN R51.02 and then its successor under UN R51.03 (preferably stage 2).
- Single vehicles might be tested as well, if they are interesting.
- Vehicles selection is based on press reports and outcome of questionnaires.

## Work Package 1 timing:

- Literature study → DONE
- Preparation of Questionnaires → DONE
- Questionnaire Analysis by End September'2023
- Test program to be finished until End'2023
- Presentation of results for WP1 is planned for GRBP 79



## Work Package 2

- Monitoring data on RD-ASEP shall be collected. Data are expected in the mandatory RD-ASEP monitoring sheet.
- UTAC to make a data-exchange platform → see next slide
- Creation of a database for the RD-ASEP monitoring data
- Review the Questionnaire coming with the RD-ASEP monitoring sheet
- Provide a pre-analysis mainly statistical nature on
  - Number of datasets delivered
  - % of ICE, HEV, EVs, ...
  - Problems detected (wrong completion, problems with algorithm, ...)
- Provide thoughts and ideas by UTAC, where RD-ASEP might need improvement

75 | **UNECE** | **SUSTAINABLE DEVELOPMENT GOALS**  Advanced Search

About UNECE | Our work | Themes | SDGs | Open UNECE | Events | Publications | Media

UNECE **DOCUMENTS FOR REFERENCE ONLY**

- Vehicle Regulations
- About us
- Meetings & Documents
- World Forum for Harmonization of Vehicle Regulations
- Pollution and Energy
- Noise and Tyres**
- GRBP meetings
- Informal Groups
- Documents for reference only (GRB)**

## Documents for reference only

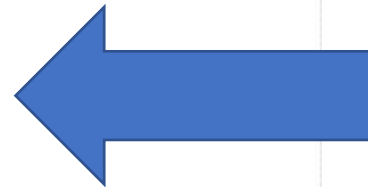
**GRBP-77-15-Rev.3** - RD-ASEP Monitoring Data Delivery Document  
English [XLS](#)

**GRBP-76-14** - (OICA) Comparison of EMISIA and ATEEL study on sound limit values for vehicle category M & N  
English [PDF](#)

**GRBP-75-21-Rev.1** - (OICA) ACEA/ETRTO Tyre Performance Aggregation Study: presentation  
English [PPT](#) [PDF](#)

**GRBP-75-20** - (OICA) ACEA/ETRTO Tyre Performance Aggregation Study  
English [PDF](#)

**GRBP-75-19-Rev.1-Add.1** - (OICA) ACEA Tyre Performance Study: presentation (abstract)  
English [PPT](#) [PDF](#)



**Here you find the RD-ASEP Monitoring Data Delivery Document**



## The RD-ASEP Monitoring Data Delivery Document contains the link for data submission

Excel GRBP-77-15-Rev.3-RD-ASEP Monitoring Data Delivery Document OV1c1 - OPEN FOR DATA ENTRY - Gespeichert

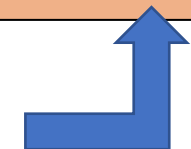
Suche (Alt + M)

Datei Start Einfügen Zeichnen Seitenlayout Formeln Daten Überprüfen Ansicht Hilfe Anzeigen

B4 OFFICIAL VERSION 1

Document Version		
	This document serves to the RD-ASEP Monitoring as introduced by Supplement 7 to UN R51.03. It is referenced in the Regulation under the footnote 4 introduced by Supplement 9 UN R51.03.	
	<b>OFFICIAL VERSION 1</b> Release date: 01.06.2023	<b>THIS IS THE OFFICIAL DATA DELIVERY SHEET. DO NOT USE ANY DRAFT VERSION.</b> <b>THIS DOCUMENT CAN BE DOWNLOADED FROM THE UN-ECE WEBSITE USING THE LINK TO THE RIGHT</b> =====>
		<a href="#">GRBP/documents-reference-only</a>
Background Information		
	<b>This document is the mandatory communication form for monitoring data during the RD-ASEP monitoring phase according to UN R51.03 Supplement 9.</b> Notwithstanding the specifications of the regulation, Type Approval Authorities, Technical Services, and vehicle manufacturers <u>may</u> use this format for additional RD-ASEP measurements of approved vehicles, provided that all data have been determined on a single vehicle. This is applicable but not limited to extensions of type approval, or vehicles not falling under the scope of RD-ASEP, or approvals not falling within the monitoring period. All tests for Annex 3 and for Annex 9 shall be carried out on the same test track and under similar environmental conditions.	
Document Receiver		
	According to the provisions of Supplement 9 to UN R51.03, the data shall be sent to the	<b>The completed file shall be uploaded to a datasever under the link provided here</b> =====>
		<a href="#">UPLOAD DATA TO SERVER</a>

Here is the link to the UTAC server,  
where you can upload completed monitoring documents



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## UNECE – RD-ASEP FORM

Contact us

This access request form and the upload portal are hosted by UTAC and are intended to collect RD-ASEP monitoring data, as introduced by the Supplement 7 of UNR 51-03 regulation.

Once this application form will be validated by UTAC (for security reasons), the user will receive a Microsoft activation link to access the upload portal.

**The upload portal will be effective from July 1, 2023.**

Registered Authorities can submit test data using the following link :  
<https://utaceram.sharepoint.com/sites/unece-rdasep-upload>

Authorities not registered by now, please complete the form below (You shall need a registration code, which was submitted by UTAC to each Authority listed for UN R51).

Country\* Type Approval Authority (TAA) granting type approval\*

First Name\* Last Name\*

Job Position\*

E-mail\* Phone\*

registration code\*

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Accept Deny View preferences

## UTAC Website for data submission

- Link: <https://www.utac.com/unece-rdasep-form/>

➔ Type Approval Authorities to submit data

➔ Therefore, each TAA will need registration code from UTAC for data submission.

## Work Package 2 timing

- Data exchange platform by July'2023 → DONE
- Creation of database for Analysis of monitoring data → IN PROGRESS
- Data collection → IN PROGRESS
- Data analysis → WILL BE STARTED ONCE REASONABLE DATA AMOUNT HAS BEEN COLLECTED
- Interim reports are planned for GRBP 79 and 80,
- Final report is planned for GRBP 81



[www.utac.com](http://www.utac.com)