



Progress report of the LowT TF & short summary of the “informal document” for an optional annex on low Temperature

WLTP 29th - Geneva, January 2020

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RELEVANT Information about the optional annex:

The LowT TF has confirmed that the requirements for a new procedure of the Type 6 test (temperature $-7^{\circ}\text{C} \pm 3$) would be contained in a **new optional annex**.

Today, **an informal document** (under development) of this optional annex is presented to the WLTP group.

This informal document of the new optional annex should become a **Working Document** in the next two coming months and be ready for the **17th of March**

The Low T TF reports today the progress drafting work done for the “informal document”

The low T TF has been working during 2019 on a **New Optional Annex for Type 6 test to be ready** for the GTR 15 amendment #6 [*]

[*] It will replace the Type VI test in UNR No. 83.

This new Type 6 test is not included in the initial versions of UNR WLTP – it will be added at a later stage

The latest modifications were done during LowT TF 34th telco on the 10th of January [*]

Latest version:

200110 - Low Temp Annex based on ECE-TRANS-WP29-2019-62e.docx

The latest version of the informal document for the Type 6 test requirements can be found at the following UN Wiki link:

<https://wiki.unece.org/display/trans/Optional+annex+Low+T+-+Drafting>

[]All main changes done in the text during the drafting of the informal document are indicated with margin notes and the latest are dated on the 10th of Jan 2020.*

Key changes to the UNR No. 83 Type VI test include:

- Drafting and production of an **optional annex** to GTR#15 for low winter temperature
- Applicable **to all type of vehicles and fuels** (exempt FCHV for the first version of the optional annex)
- Purpose is to check compliance of pollutant emissions (THC, CH₄, NMHC, CO, NO_x, PM, PN) and provide information for CO₂, FC, EC and range.



Traceability of the drafting process:

Complete information can be seen at:

[WLTP_Low_Temp_TF_Status_list_v20xx-yy-zz.xlsx](#)

<https://wiki.unece.org/display/trans/Optional+annex+Low+T+-+Drafting>

This document has driven the revision of the open issues list, identifying the state of the points. It refers to the GTR 15 and keeps a record of all modifications and decisions taken. It keeps updating the progress done in the LowT TF in conjunction with the EV SG in order to facilitate the drafting of the informal document.

Reading and understanding of the state of the document has been facilitated according with the following labels:






	drafted
yes	Y
not applicable	N/A
No text needed	NTN
To be done	TBD
Work on Progress	WIP

Next meetings of the TF

- New coming dates for telco and/or f2f meetings
- **Jan 29 ; Feb 6 & 21 (f2f?) ; March 5 & 12**
- Working document: 17th March

Table: summary of the current legislation Low Temperature (Worldwide)

Low Temperature Current legislation Worldwide

	T C °	Cycle	Road-Load	Vehicles	Pollutants
	-7.0 ±3	UDC	Determined at -7 C or 10% reduction of coast-down time	PI including hybrids + information regarding NOx after-treatment for C.I.	HC, CO
	-7.0 ±3	UDC	"	"	THC, CO
	-7.0 ±1.7	FTP	Performing coast-down tests and calculating road-load coefficients	Otto-cycle and diesel including multi-fueled, alternative fueled, hybrid electric, and zero emission vehicles	NMHC, CO, CO ₂ *
	-6.7	CVS-75		Gasoline + information regarding NOx after-treatment for C.I.	CO
	-7.0 ±3	Low+ Medium of WLTC	Determined at -7 C or 10% reduction of coast-down time	S.I.; C.I.; hybrids	THC, CO, NOx

* CO₂ is analysed and results used for the determination of the vehicle fuel economy. Cold temperature standards apply for CO and NMHC emissions.

