

TO: Teams Manufacturers

CATEGORY: Hypercar LMP2 LMGTE Pro LMGTE Am

DECISION N°: WEC_2021_D0034_LMGTE_Refuelling_Le_Mans **Amended**

DATE: 18/08/2021 **FROM:** The WEC Committee

SUBJECT: Modification of the refueling procedures in the LMGTE category for Le Mans 2021 Competition

APPLICABLE REGULATION

Article 6.3.2 2021 24 Hours of Le Mans Supplementary Regulations

DECISION

A new method for the calculation of LMGTE refuelling times has been presented and accepted by all LMGTE manufacturers.

This method and its application are detailed below.

- 1- The maximum onboard fuel volume is established in the BOP.

For LMGTE Pro, the maximum fuel used between each refuelling will be monitored using the FFM and must be less than: $M (kg) < [(V_{BOP} (l) - 3) \times 0.760]$

The fuel used will be taken into account from pit-out to pit-in.

For the first stint, the calculation will count from last refuelling prior to the lap to the grid before the start of the race.

For last stint, the calculation will stop in parc fermé.

As per Article 15.1.1 and 5.2.1 of the Sporting Regulations, all cars must have sufficient fuel to drive to parc fermé and undertake a fuel sample if required.

If a competitor is over-shooting this limit, the penalty will be:

- 1st time of infringement: Stop and Go + 10 seconds
- 2nd time of infringement: Stop and Go + 60 seconds
- 3rd time and more of infringement: Stop and Go + 120 seconds

For LMGTE Am, the maximum onboard fuel volume can only be checked after the race.

- 2- During the race, the refuelling time (for all refuelling pitstops ~~except the last one~~) must be more than:

$T_{\text{refuelling time}} (s) > (N \text{ number of laps completed since the last refuelling } (-) \times K \text{ coefficient of second per lap completed } (s))$

~~For the last refuelling of the race, the refuelling time must be more than:~~

~~$T_{\text{refuelling time}} (s) > (N \text{ number of laps of next stint - between last race refuelling and parc fermé } (-) \times K \text{ coefficient of second per lap completed } (s))$~~

In LMGTE Pro, **K= 2.5 s** and therefore after 14 laps the minimum refuelling time will be 35 s.

In LMGTE Am, **K= 3.0 s** and therefore after 14 laps the minimum refuelling time will be 42 s.

- 3- During the race, if a Competitor is refuelling under Full Course Yellow, the minimum refuelling time must be:

$T_{\text{refuelling time}} (s) > [(N \text{ number of laps since last refuelling under green } (-) \times K \text{ coefficient of second per lap completed } (s)) - T_{\text{Art.14.5.2}}]$

As example, T2 for LMGTE Pro should be: $T2 > [(14 + 2) \times 2.5 - 4.8]$

RUN (n-1)	PITSTOP (n-1)	RUN (n)	PITSTOP (n)
	under Art.14.5.2	Full Course Yellow	mandatory pitstop
14 laps	T1 = 4.8 s	2 laps	T2

- 4- During the race, if refuelling time is less than the above defined minimum refuelling time by an amount of T_{short} , the Competitor must extend (at his initiative) the next refuelling time by:

$$P_{time\ self-penalty} (s) = (T_{short} (s) \times 4_{penalty\ coefficient}) + 5$$

If the last refuelling time of the race is less than the above defined minimum refuelling time by an amount of T_{short} , a time penalty of

$$P_{time\ penalty} (s) = (T_{short} (s) \times 4_{penalty\ coefficient}) + 5$$
 will be applied to the classification of the race.

- 5- By delegation of the Panel of Stewards (but without prejudice of the Technical Delegates' right to resort to it) any breach of the above rule will result in an added pit lane time penalty of :

$$P_{time\ penalty} (s) = (T_{short} (s) \times 4_{penalty\ coefficient}) + 15$$

- 6- Refuelling times will only be monitored using the fuel coupling sensor signal.

It is the Competitor's responsibility to ensure that the sensor's signal is correct. Any failure to do so will result in an immediate obligation to fix the problem. Any power cycle done during refuelling will result in a not compliant refuelling time.

PERIOD OF VALIDITY/APPLICATION OF THE DECISION

This decision comes into effect:

with immediate application

from:

And is applicable:

until further notice

for the mentioned Competition(s) only