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Meeting Information

Project	P074 WEC Hypercar	Main Topic	LM test briefing
Meeting Owner	Stefano Rapisarda	Meeting frequency	
Meeting date	14/08/2021	Place	Meeting Room
Start time	11.00	End time	12.00

Distribution List

Name - Area	Attendees	Company	See attendees list
	Technical Direction		Podium Engineering srl
	Project Management		Podium Engineering srl
	Others		

Attendees List

Name	Role	Present	Notes
Luca Ciancetti	Team Principal	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Marco Pastorino	Sporting Director	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Jan Lange	Support Engineer	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Alberto Sugliano	Support Engineer	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Stefano Rapisarda	Performance Engineer	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Bruno Corbe	Race Engineer 708	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Christophe Boittin	Race Engineer 709	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Fabio Vitti	Data Engineer 708	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Matteo Paganini	Data Engineer 709	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Igor Zanetti	Engine Engineer 708	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Adrien Ferrand	Engine Engineer 709	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Massimiliano Turco	System Engineer 708	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Samuele Becchia	System Engineer 709	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Filippo Ramaciotti	Strategy Engineer 708	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Marco Rossini	Strategy Engineer 709	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	

1. AGENDA – Discussion points

N°	TIMING	TOPIC	SPEAKER

2. MEETING MINUTES

N°	TOPIC	AGREED ACTIONS	RESPONSIBLE
1	Run plan 709	<p>Main target is calibration.</p> <ul style="list-style-type: none"> - TC - Anti-Lag - Throttle pedal map <p>Mixed compound will be the layout. End of the day will be dedicated to long run with all the three drivers.</p> <p>Start is planned half an hour after green flag to wait for a cleaner track. After installation lap a set of two bottles with 1l and 0,5l of oil will be prepared.</p> <p>Test with tinted foil on mirrors will be done.</p> <p>Helicopter tape on front nose & wheel arches needs to be applied to save the bodywork as much as possible.</p> <p>See run plan attached.</p>	
2	Run Plan 708	<p>Main target is mechanical and aero set-up.</p> <p>For this car the first stint will be delayed 20' after green flag too.</p> <p>Effect of front flap on aero balance and brake cooling will be investigated.</p> <p>Franck will do a full stint in the morning to accomplish the mandatory laps.</p> <p>Gustavo will have a run of 7 laps to get used to track and car, just in case.</p> <p>Information on tires will be collected and analysed to understand the wear and the minimum pressure.</p> <p>See run plan attached.</p>	
3	Strategy meeting	Will be done this late afternoon.	
4	Electronics	The team telemetry will be installed to get the complete data stream on telemetry.	
5	Brake cooling layout	No answer from FIA, the layout that will be installed onto the cars will be defined soon, the trade off will be in between having data on brake wear and try as much as possible layouts.	
6	Cars weight	At scrutineering the cars weight was around 10 kgs above the weight of Monza. Some additional analysis on this needs to be carried out to understand where this weight comes from.	
7	Torque sensors calibration	Calibration of torque sensors on driveshaft will be done tomorrow after the test session, it will take around one hour.	

3. Annexes and References

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RUN PLAN 709

	RUN	DRIVER	LAPS	LATETIME	TIME OUT	TIME IN	RUN DURATION	STOP	TIRES SET	COMPOUND	TIRES MILEAGE (KM)		FUEL (KG)				NOTES
											START	END	ADDED	REFUELING	START	END	
TEST DAY AM	1	RD	1	3:30.00	9:15:00	9:18:30	0:03:30	0:15:00	9201	SH	0	14	90 kg	38.0 s	90 kg	83 kg	oil level check post install lap + usual checks
	Before leaving the pits																
	2	RD	5	3:30.00	9:33:30	9:51:00	0:17:30	0:10:00		SH	14	82	7 kg	3.0 s	90 kg	57 kg	base stint driver: RH CHECK/...
	Before leaving the pits																
	3	RD	3	3:30.00	10:01:00	10:11:30	0:10:30	0:10:00		SH	82	123	32 kg	13.5 s	89 kg	70 kg	ALS (pedal exit/rednom 6)+ fcy and pit speed
	Before leaving the pits																
	4	RD	3	3:30.00	10:21:30	10:32:00	0:10:30	0:10:00		SH	123	164	20 kg	8.4 s	90 kg	70 kg	ALS (phasing/load, P21 P22 control)
	Before leaving the pits																
	5	RD	3	3:30.00	10:42:00	10:52:30	0:10:30	0:10:00		SH	164	204	20 kg	8.4 s	90 kg	70 kg	PP22 (pre control(derivative))
	Before leaving the pits																
	6	RB	5	3:30.00	11:02:30	11:20:00	0:17:30	0:10:00		SH	204	273	20 kg	8.4 s	90 kg	57 kg	base stint driver
	Before leaving the pits																
	7	RB	3	3:30.00	11:30:00	11:40:30	0:10:30	0:10:00		SH	273	313	0 kg	0.0 s	57 kg	37 kg	PP22 (derivative _2)
	Before leaving the pits																
	8	RB	3	3:30.00	11:50:30	12:01:00	0:10:30	0:10:00		SH	313	354			37 kg	17 kg	P21(pre control)
	Before leaving the pits																
	9	RB	3	3:30.00	12:11:00	12:21:30	0:10:30	0:10:00		SH	354	395			17 kg	0 kg	update cal
	Before leaving the pits																
															0 kg		
	Before leaving the pits																

	RUN	DRIVER	LAPS	LATETIME	TIME OUT	TIME IN	RUN DURATION	STOP	TIRES SET	COMPOUND	TIRES MILEAGE (KM)		FUEL (KG)				NOTES
											START	END	ADDED	REFUELING	START	END	
TEST DAY PM	1	RW	5	3:30.00	14:00:00	14:17:30	0:17:30	0:10:00	9401	SH/MH	0	68	90 kg	38.0 s	90 kg	57 kg	BASE STINT DRIVER/dark mirrors
	Before leaving the pits																
	2	RW	3	3:30.00	14:27:30	14:38:00	0:10:30	0:10:00		SH/MH	68	109	33 kg	13.9 s	90 kg	70 kg	TC TEST/anti lag/ENG CALIBRATION
	Before leaving the pits																
	3	RW	3	3:30.00	14:48:00	14:58:30	0:10:30	0:10:00		SH/MH	109	150	20 kg	8.4 s	90 kg	70 kg	TC TEST/anti lag/ENG CALIBRATION
	Before leaving the pits																
	4	RW	3	3:30.00	15:08:30	15:19:00	0:10:30	0:10:00		SH/MH	150	191	20 kg	8.4 s	90 kg	71 kg	TC TEST/anti lag/ENG CALIBRATION
	Before leaving the pits																
	5	RD	6	3:30.00	15:29:00	15:50:00	0:21:00	0:10:00		SH/MH	191	273	19 kg	8.0 s	90 kg	50 kg	TC TEST/anti lag/ENG CALIBRATION
	Before leaving the pits																
6	RD	6	3:30.00	16:00:00	16:21:00	0:21:00	0:10:00		SH/MH	273	354	0 kg	0.0 s	50 kg	10 kg	TC TEST/anti lag/ENG CALIBRATION	
	Before leaving the pits																
	7	RB	6	3:30.00	16:31:00	16:52:00	0:21:00	0:10:00		SH/MH	354	436	80 kg	33.8 s	90 kg	51 kg	TC TEST/anti lag/ENG CALIBRATION
	Before leaving the pits																
	8	RB	6	3:30.00	17:02:00	17:23:00	0:21:00	0:10:00		SH/MH	436	518	0 kg	0.0 s	51 kg	11 kg	TC TEST/anti lag/ENG CALIBRATION
9	RW	6	3:30.00	17:33:00	17:54:00	0:21:00	0:10:00	9402	SH/MH	0	82	79 kg	33.3 s	90 kg	51 kg		
	Before leaving the pits																
10	RW	6	3:30.00	18:04:00	18:25:00	0:21:00	0:10:00		SH/MH	82	164				51 kg	11 kg	
	Before leaving the pits																

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RUN PLAN 708

		Driver	Laptime	Fuel / lap		Lap Expect	Expected End	TEST ITEMS										
				L	kg													
		PD	3:31.0	8.63 L	6.60 kg	26		Front flap position										
		FM	3:31.0	8.63 L	6.60 kg	24		RARB (4 Roll stiffness & distribution)										
		OP	3:31.0	8.63 L	6.60 kg	23		EOS RH (rear 3rdelt gap)										
		GM	3:31.0	8.63 L	6.60 kg	7		Camber for tires wear										
								High TP										
								Rear damping softer (reb then Bump)										
FP1	1	OP	1	03:31.00	9:20:00	9:23:31	0:03:31	0:20:00	8201	SH	0	14	90 kg	38.0 s	90 kg	83 kg	During driving	Installation lap.
	1									Settings								
	1									Baseline								
	2	OP	4	03:31.00	9:43:31	9:57:35	0:14:04	0:10:00		SH	14	68	7 kg	3.0 s	90 kg	64 kg	During driving	RH, TP, overall balance checks
	2									Settings								
	3	OP	4	03:31.00	10:07:35	10:21:39	0:14:04	0:10:00		SH	68	123	26 kg	11.0 s	90 kg	64 kg	During driving	RH, TP, overall balance checks
	3									Settings								
	4	OP	4	03:31.00	10:31:39	10:45:43	0:14:04	0:10:00		SH	123	177	26 kg	11.0 s	90 kg	63 kg	During driving	Compare aero balance and front brakes cooling
	4									Settings								
	5	FM	12	03:31.00	10:55:43	11:37:55	0:42:12	0:10:00		SH	177	341	27 kg	11.4 s	90 kg	11 kg	During driving	
	5									Settings								Warm-Up driving
	6	PD	4	03:31.00	11:47:55	12:01:59	0:14:04	0:10:00		SH	341	395	62 kg	26.2 s	73 kg	47 kg	During driving	Warm-Up driving
	6									Settings								
	7	PD	4	03:31.00	12:11:59	12:26:03	0:14:04	0:10:00		SH	395	450			47 kg	20 kg	During driving	
	7									Settings								
	8									Settings								
	8									Settings								
FP2	1	PD	4	03:31.00	14:00:00	14:14:04	0:14:04	0:10:00	8401	SH/MH	0	55	90 kg	38.0 s	90 kg	64 kg	During driving	FP2 SETUP
	1									Settings								
	2	PD	4	03:31.00	14:24:04	14:38:08	0:14:04	0:10:00		SH/MH	55	109	26 kg	11.0 s	90 kg	63 kg	During driving	
	2									Settings								
	3	GM	7	03:31.00	14:48:08	15:12:45	0:24:37	0:10:00		SH/MH	109	204	27 kg	11.4 s	90 kg	44 kg	During driving	Driving
	3									Settings								
	4	FM	12	03:31.00	15:22:45	16:04:57	0:42:12	0:10:00		SH/MH	204	368	46 kg	19.4 s	90 kg	11 kg	During driving	Driving
	4									Settings								
	5	OP	5	03:31.00	16:14:57	16:32:32	0:17:35	0:10:00		SH/MH	368	436	79 kg	33.3 s	90 kg	57 kg	During driving	
	5									Settings								
	6	OP	5	03:31.00	16:42:32	17:00:07	0:17:35	0:10:00	8402	SH/MH	0	68	35 kg	13.9 s	90 kg	57 kg	During driving	
	6									Settings								
	7	PD	5	03:31.00	17:10:07	17:27:42	0:17:35	0:10:00		SH/MH	68	136	22 kg	9.3 s	79 kg	46 kg	During driving	
	7									Settings								
	8	PD	5	03:31.00	17:37:42	17:55:17	0:17:35	0:10:00		SH/MH	136	204			46 kg	13 kg	During driving	
	8									Settings								
	8									Settings								
	8									Settings								

SESS LAPS 33 laps

SESS MIL 450 km



FP1 SO FAR

PD 8 8 laps

FM 12 12 laps

OP 13 13 laps

GM 1 laps

laps

SESS LAPS 47 laps

SESS MIL 640 km

SO FAR LAPS 80 laps

SO FAR MIL 640 km

FP2 SO FAR

PD 18 26 laps

FM 12 24 laps

OP 10 23 laps

GM 7 7 laps

laps