General	Sense & Control Scrutineering (Extending checks to existing scrutineering checklist)		
	Team:		
	Overall verdict (Passed?)	☐	
Entry criteria	Pre Scrutineering done	☐	
	Battery and low-voltage inspection done	☐	
	Necessary safety equipement used/worn	☐	
Procedures	Power on checked	☐	
	Power off checked	☐	
	State transitions check checked	☐	
		Pod:	(If applicable): Active track
Prototype general safety	Is emergency control switch accessable for operator?	☐	☐
	Is the switch protected from accidential collisions?	☐	☐
	The demonstrator bears resemblance with the proposed FDD concept.	☐	☐
	Are system health LEDs visible without removing parts?	☐	☐
Prototype GUI	Safe range for monitored variables is clearly indicated.	☐	☐
	The demonstrator can break using a physical button of the Control Station.	☐	☐
	GUI monitors the speed of the demonstrator.	☐	☐
	GUI does not display outdated values.	☐	☐
	Stop command is implemented on the GUI.	☐	☐
	Person monitoring the speed of the demonstrator has quick access to the emergency breaks.	☐	☐
	Demonstrator’s health must be visible to an external viewer using colored visual indicators.	☐	☐
	Test cut off battery command and verify correct result.	☐	☐
	Test emergency command and verify correct result.	☐	☐

Batteries	All safe actuations must be tested (brakes, contactors, relays, valves)	☐	☐
	The GUI logs individual cell voltage of 100% of low voltage Cells.	☐	☐
	The GUI logs data of at least 25% of cell temperatures.	☐	☐
	The GUI logs SOC of the low voltage battery.	☐	☐
	The GUI logs individual cell voltage of 100% of low voltage Cells.	☐	☐
System tests	The demonstrator enters Fault State after sensor disconnection	☐	☐
	Navigation sensor unplugged handled safely	☐	☐
	Sensor failures properly handled?	☐	☐
	The demonstrator enters Fault State after reading out-of-range values (provoke them by manipulating movement sensors. If not possible, the team is responsible for manually triggering the protection system with code.)	☐	☐
	The demonstrator breaks after entering Fault State	☐	☐
	The demonstrator opens relays after entering Fault State	☐	☐
	The demonstrator enters in Fault State after a disconnection.	☐	☐
	The demonstrator logs data in Fault State.	☐	☐
	The demonstrator can be restarted from Fault State.	☐	☐
	Wires connected properly of Sense & Control	☐	☐
	Sense & Control System safe in case of vibrations	☐	☐
	Sense & Control connectors make sure that no shorts/bad connections might occur	☐	☐
	Proper explanation of how system indicates end of run	☐	☐
	Proper explanation of how system that it has come to a stop	☐	☐
	System left stationary for longer time in initial state - is navigation and possible drift handled properly?	☐	☐

	System is moved by hand - is navigation handled properly and state machine correct for this manual run? (NO HV, NO PRESSURE, just LV)	☐	☐
	Will there not be any movement when the System is initially powered?	☐	☐
	Made sure that pod will start braking at end of track? (even if whole navigation is not working - i.e. start acc - stop acc and wait until braking?)	☐	☐
	No braking while accelerating is possible?	☐	☐
	Does the system can be powered without the HV batteries (see its temperature and ambient without using it)?	☐	☐
	Demonstrator health should be easily visible by external viewer	☐	☐
	Just for sensor & control with only LV: All actuations that are safe could be tested (brakes/contactors/relays, valves)	☐	☐
	In case of power loss, is the state safe of pressurized system? (Only S&C, no pressure)	☐	☐
	In case of power loss, can the system be vented? (Only S&C, no pressure)	☐	☐
	In case of connection loss, is the state safe of pressurized system? (Only S&C, no pressure)	☐	☐
	In case of connection loss, can the system be vented? (Only S&C, no pressure)	☐	☐