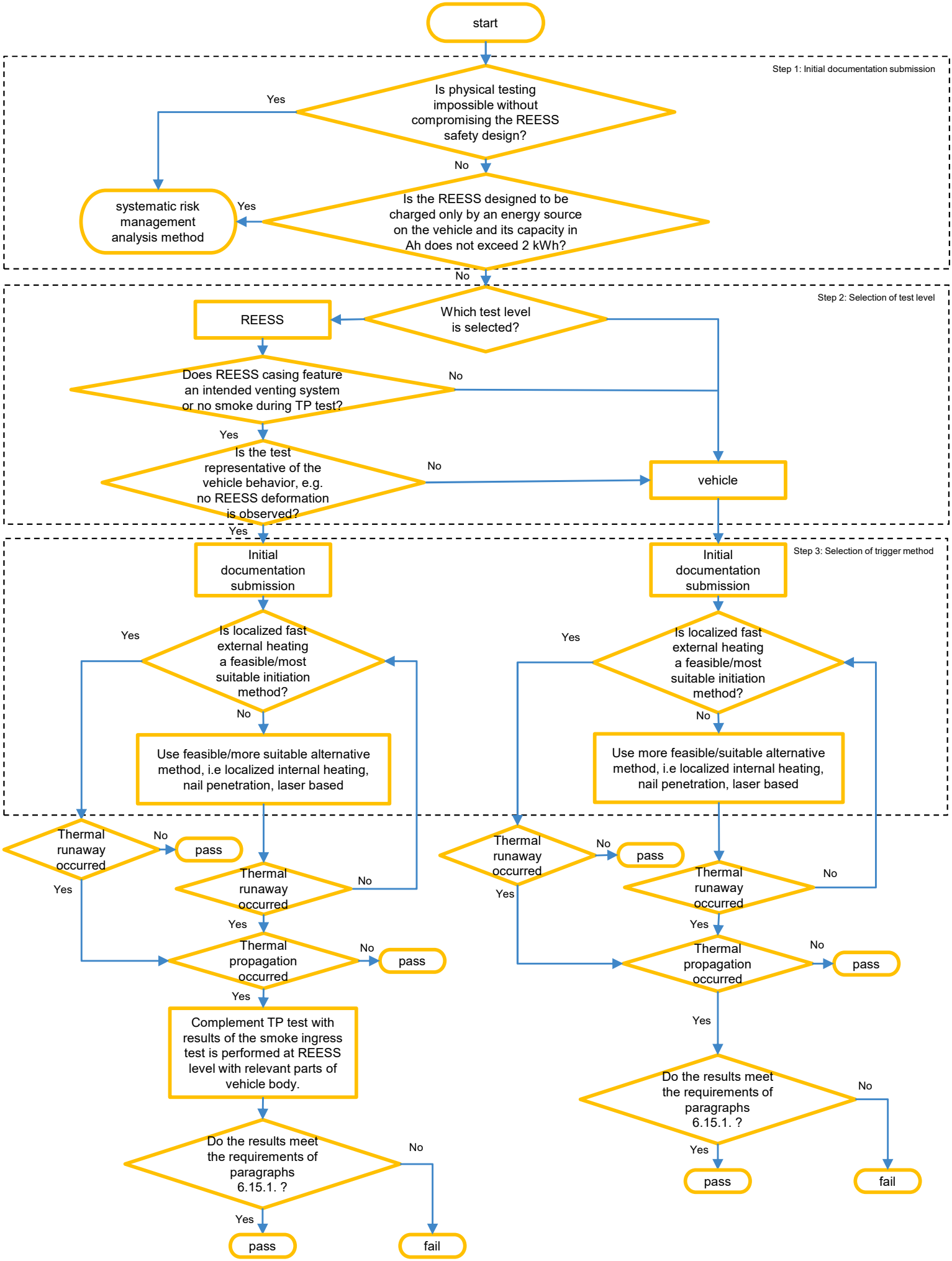
start
Step 1: Initial documentation submission
Is physical testing impossible without compromising the REESS safety design?
Yes
No
systematic risk management analysis method
Yes
Is the REESS designed to be charged only by an energy source on the vehicle and its capacity in Ah does not exceed 2 kWh?
No
Step 2: Selection of test level
REESS
Which test level is selected?
Does REESS casing feature an intended venting system or no smoke during TP test?
No
Yes
Is the test representative of the vehicle behavior, e.g. no REESS deformation is observed?
No
vehicle
Yes
Step 3: Selection of trigger method
Initial documentation submission
Initial documentation submission
Yes
Is localized fast external heating a feasible/most suitable initiation method?
Yes
Is localized fast external heating a feasible/most suitable initiation method?
No
Use feasible/more suitable alternative method, i.e localized internal heating, nail penetration, laser based
No
Use more feasible/suitable alternative method, i.e localized internal heating, nail penetration, laser based
Thermal runaway occurred
No
pass
Yes
Thermal runaway occurred
No
Yes
Thermal propagation occurred
No
pass
Yes
Complement TP test with results of the smoke ingress test is performed at REESS level with relevant parts of vehicle body.
Do the results meet the requirements of paragraphs 6.15.1. ?
No
Yes
pass
fail
Thermal runaway occurred
No
pass
Yes
Thermal runaway occurred
No
Yes
Thermal propagation occurred
No
pass
Yes
Do the results meet the requirements of paragraphs 6.15.1. ?
No
Yes
pass
fail