# The European Commission's science and knowledge service

## Joint Research Centre

European Commission

# OVC-HEV & NOVC-HEV sequences and procedures

# Proposal JRC-EC

Sustainable Transport Unit, Energy Transport & Climate

14th January 2020

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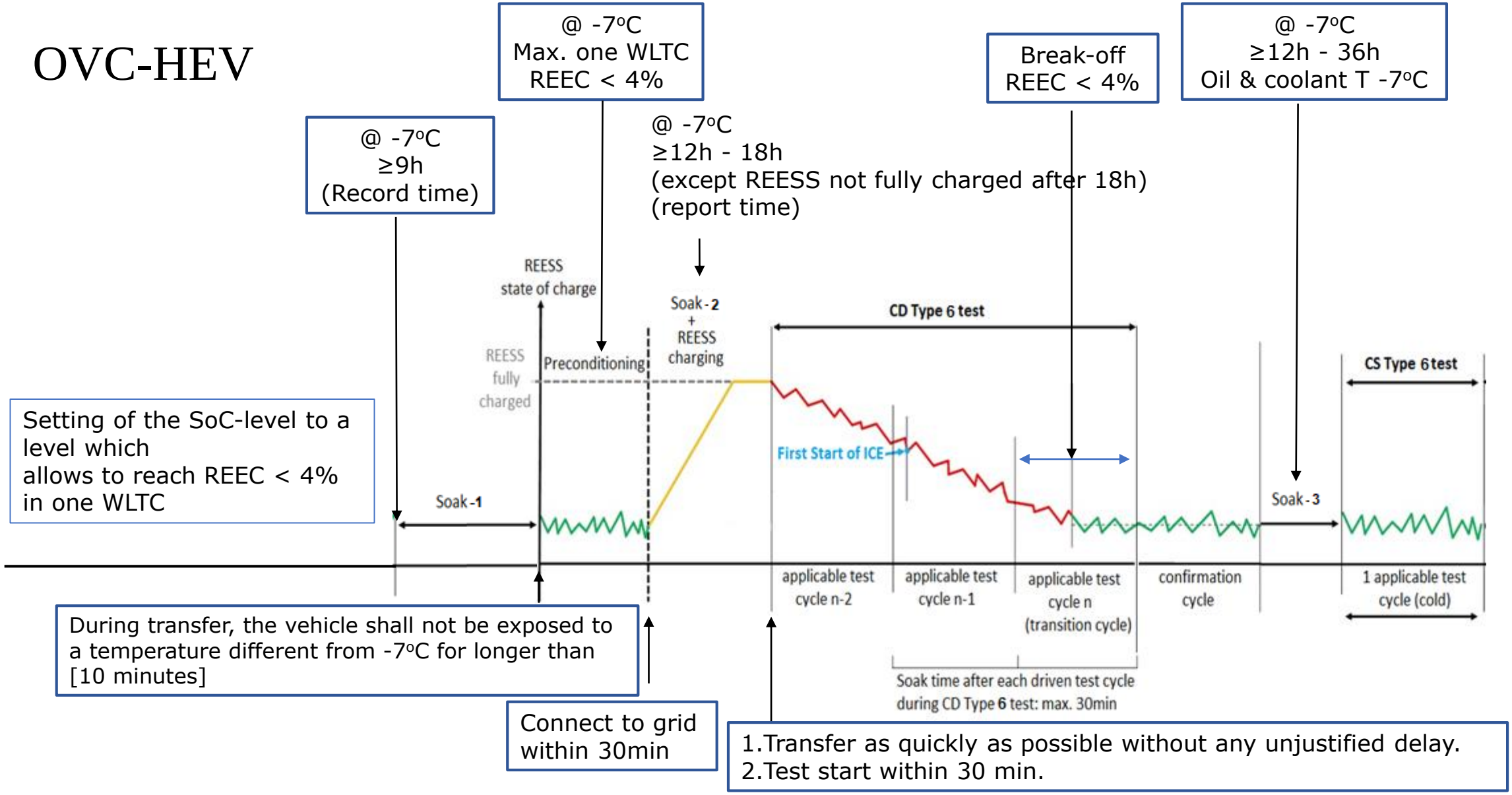
# OVC-HEV




Setting of the SoC-level to a level which
allows to reach REEC < 4%
in one WLTC

During transfer, the vehicle shall not be exposed to a temperature different from -7°C for longer than [10 minutes]

Connect to grid within 30min

1. Transfer as quickly as possible without any unjustified delay.
2. Test start within 30 min.

- The transfer from the soak area to precond. and from soak area to the test cell shall be undertaken as quickly as possible without any unjustified delay. The vehicle shall not be exposed to a temperature different from -7°C for longer than [10 minutes].
- CD & CS Type 6 test require auxiliary devices switched on.
- During Soak and REESS charging, no pre-condition action should be initiated by user.

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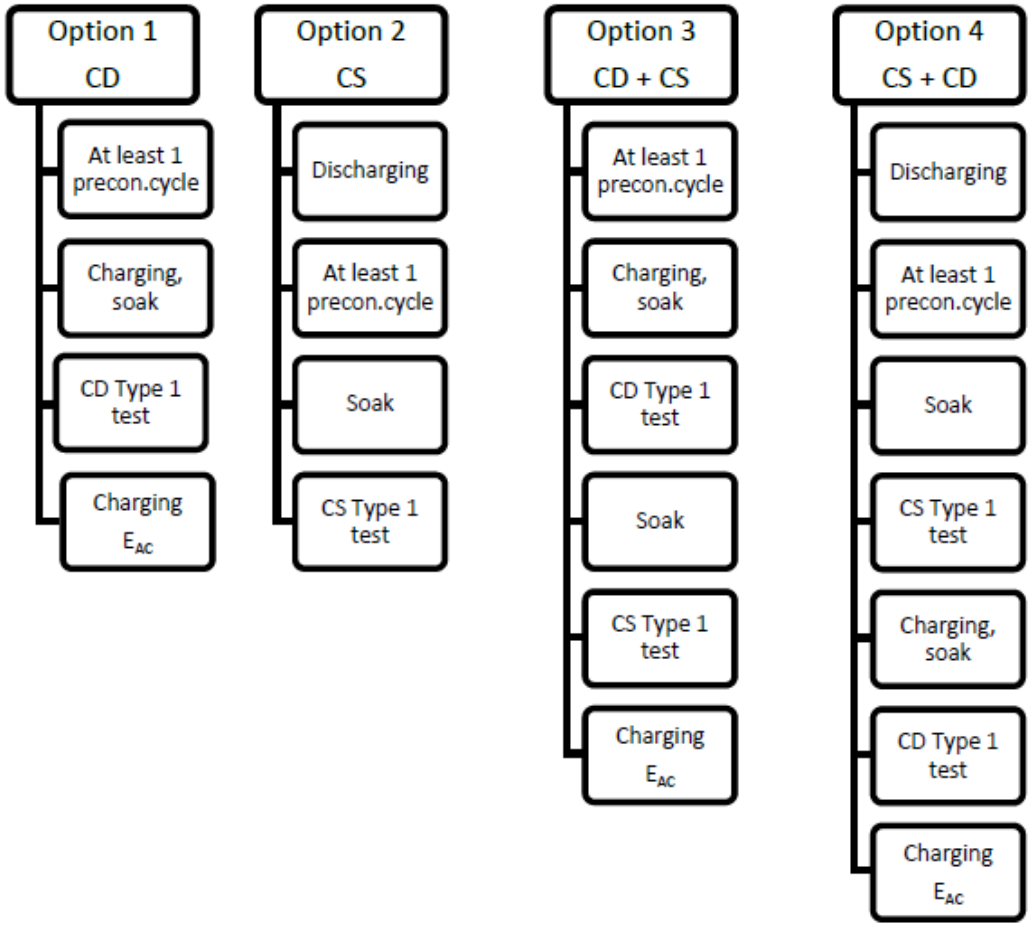
## Type 1

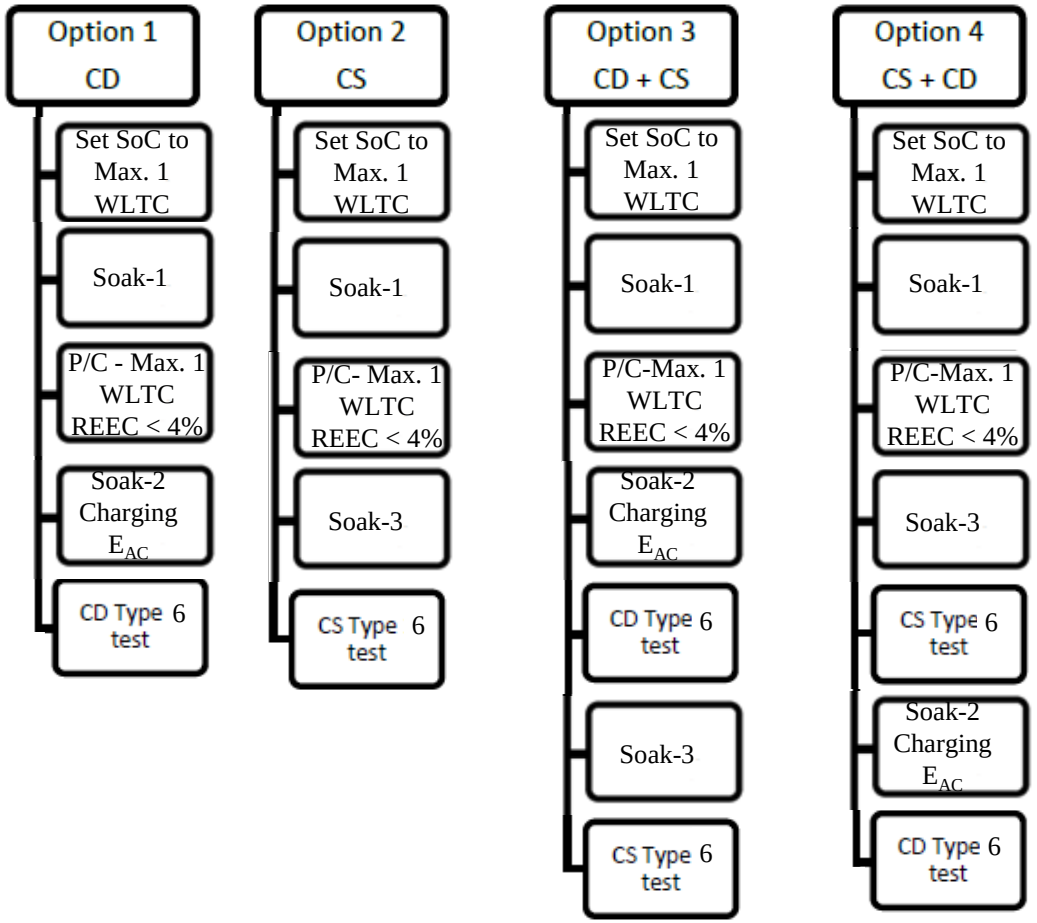
Figure A8/1

**Possible test sequences in the case of OVC-HEV testing**




## Type 6

**Possible test sequences in the case of OVC-HEV testing**

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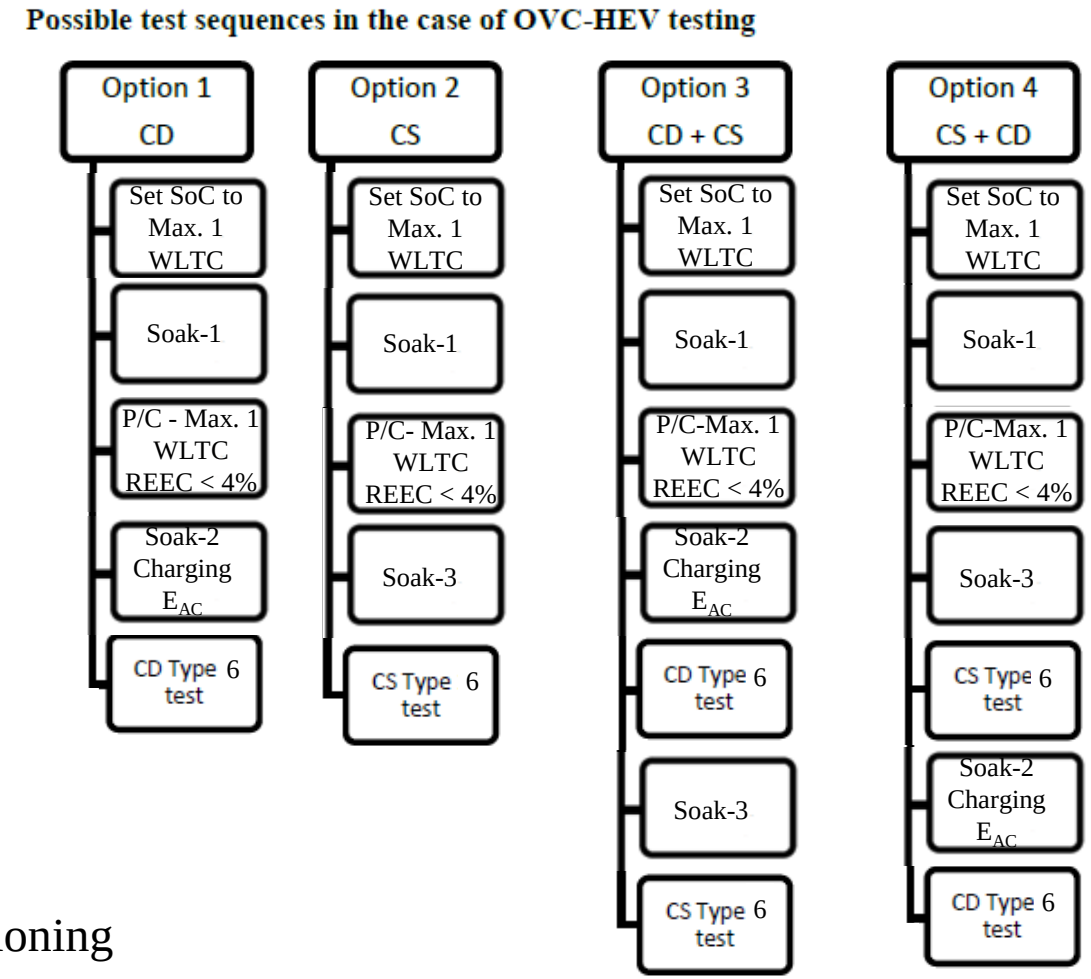
## Type 6

- Set point of SoC shall allow max 1 WLTC before break-off criterion (REEC <0.04) is reached.

- During precondition (P/C) applicable cycle, the vehicle must reach break-off criterion REEC<0.04




- Soak-1: $t_{soak\_precon} \geq 9h$
- Soak-2: $t_{soak\_CD} \geq 12h - 18h$
- Soak-3: $t_{soak\_Test} \geq 12\text{-}36h$

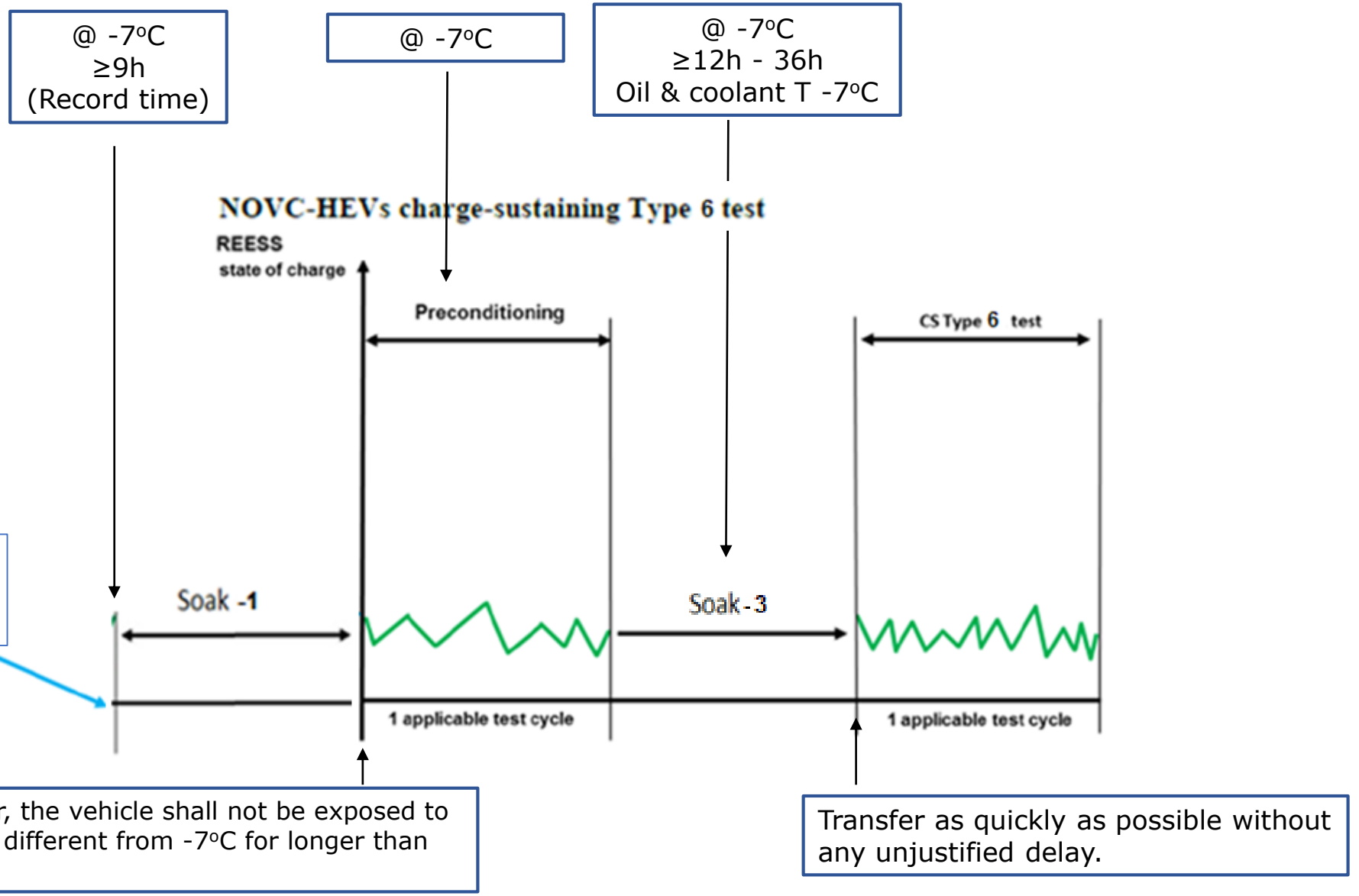
$t_{soak\_precon}$ means the minimum soaking time before the preconditioning

$t_{soak\_CD}$ means the soaking time after the preconditioning and before the Charge-depleting test for OVC-HEV

$t_{soak\_Test}$ means the soaking time after the preconditioning and before testing CS operation

# NOVC-HEV

- Soak-1: $t_{soak\_precon} \geq 9h$
- Soak-3: $t_{soak\_Test} \geq 12\text{-}36h$

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