# **SIGTP-03\_observation period of no TP**

China 2024/3/12

## **Observation Time of No Thermal Propagation**



#### An observation time of 1 hour for the determination of no TP is not sufficient

## **Definition of Thermal Propagation**



**Scenario 1:** 

C 3

Cell #2 TR (only one cell)

triggered by TR of Cell #1

С

2

**Trigger cell** 

С

heater

С



Scenario 2:

**TP** defined

in *SIGTP-02-31\_(Sec)working\_document3* 



Does *the sequential occurrence of thermal runaway* imply that in addition to the initiation cell, at least two cells should enter TR?

### Observation time in no TP judgement

Number	Chemical System	Cell Capacity	Туре	Initiation method	Time between TR to TP
1	LFP	130-250Ah	Prismatic	Nail penetration in GB 38031	56min
2					61min
3					63min
4					75min
5					86min
6					47min
7					77min

□ Total samples: 120

- □ 1h observation time in no TP judgement may not be enough
- □ Tentative idea for observation time in no TP judgement: larger than 1 hour and the temperature of adjacent cells are less than XX °C (need more supporting information)