

ISO/TC 197 doc. N 269 Annex 13

**Amendment of ISO14687**  
**Hydrogen-fuel Product specification**

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ISO/TC197 Plenary meeting

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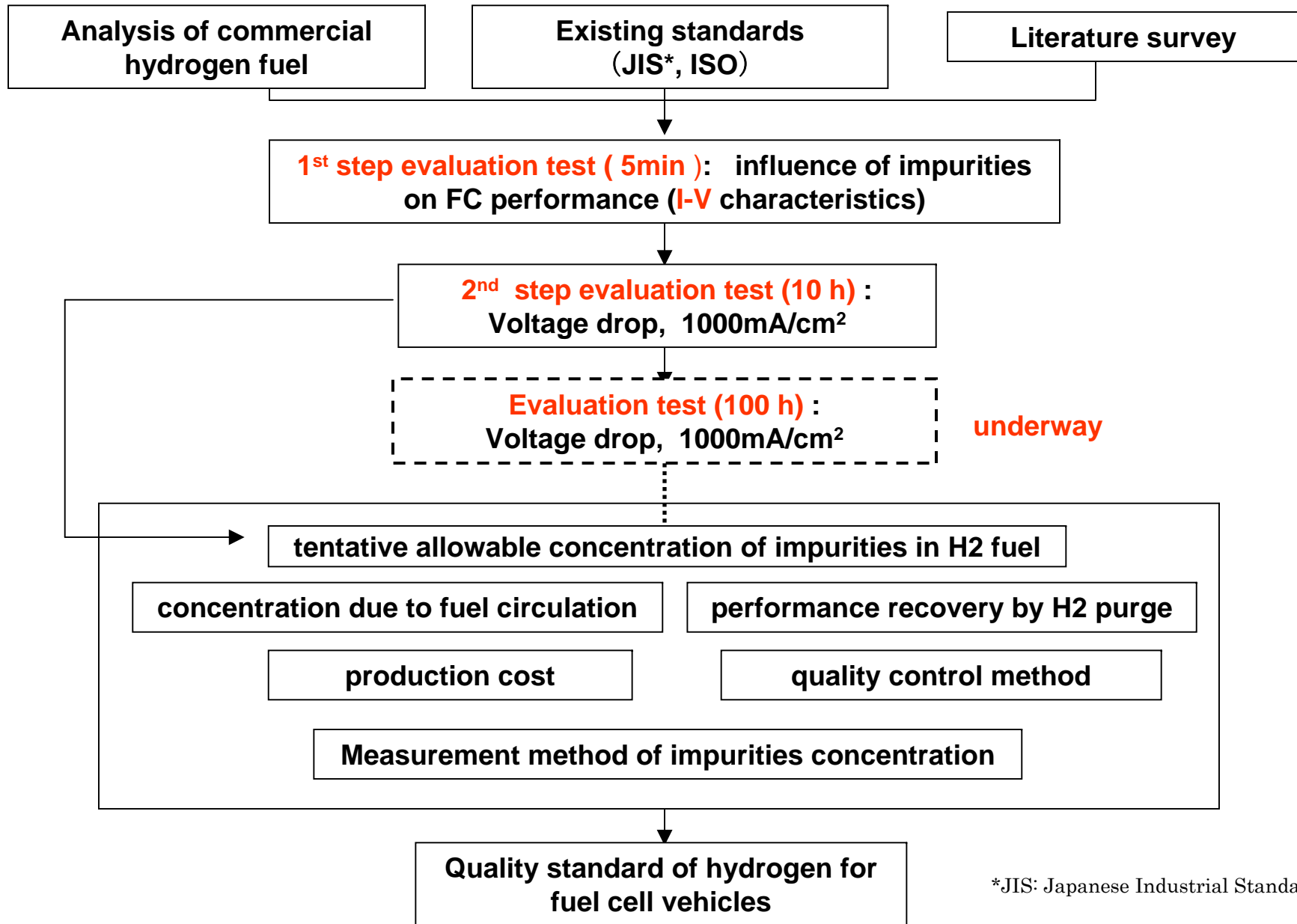
# Background

- Maintaining the fuel cell stacks' performance
- Minimizing the Hydrogen fuel loss by purge



- The limiting characteristics of hydrogen fuel for fuel cell vehicles should be added.

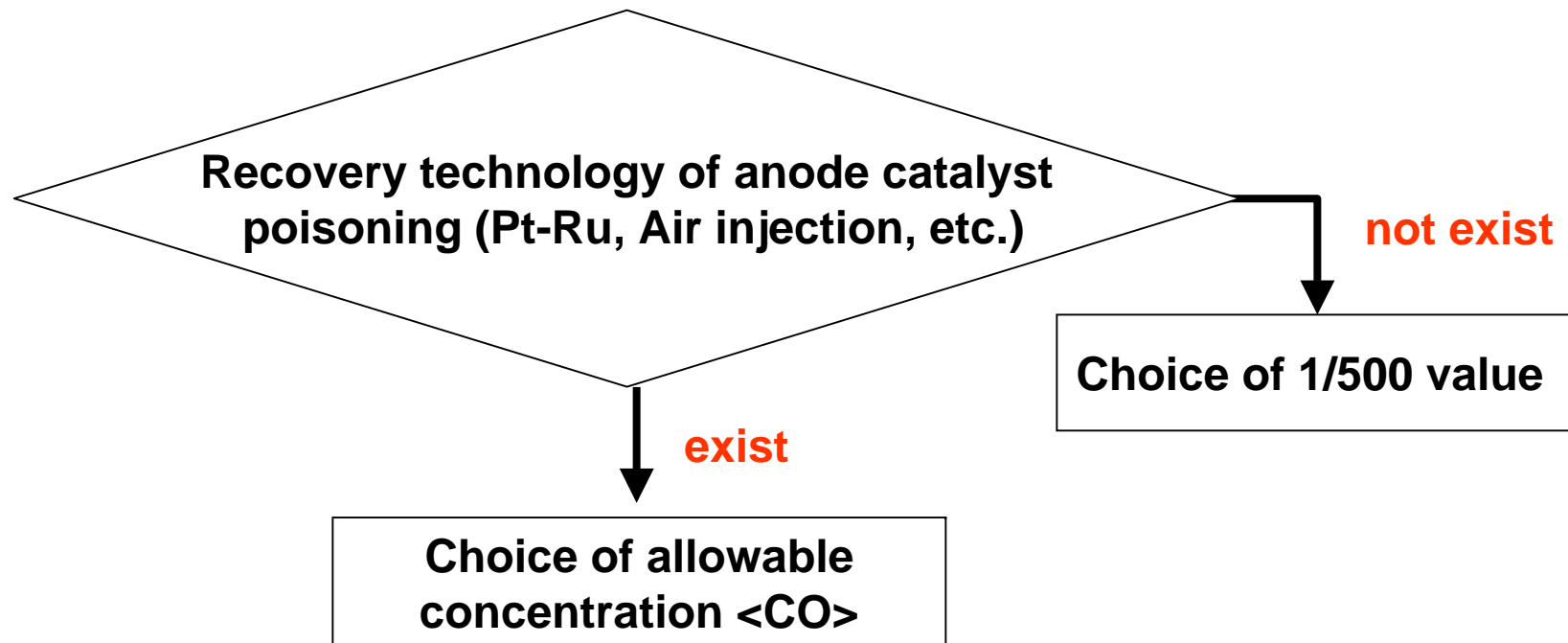
# Process for making draft standard of hydrogen spec for FCV



\*JIS: Japanese Industrial Standard

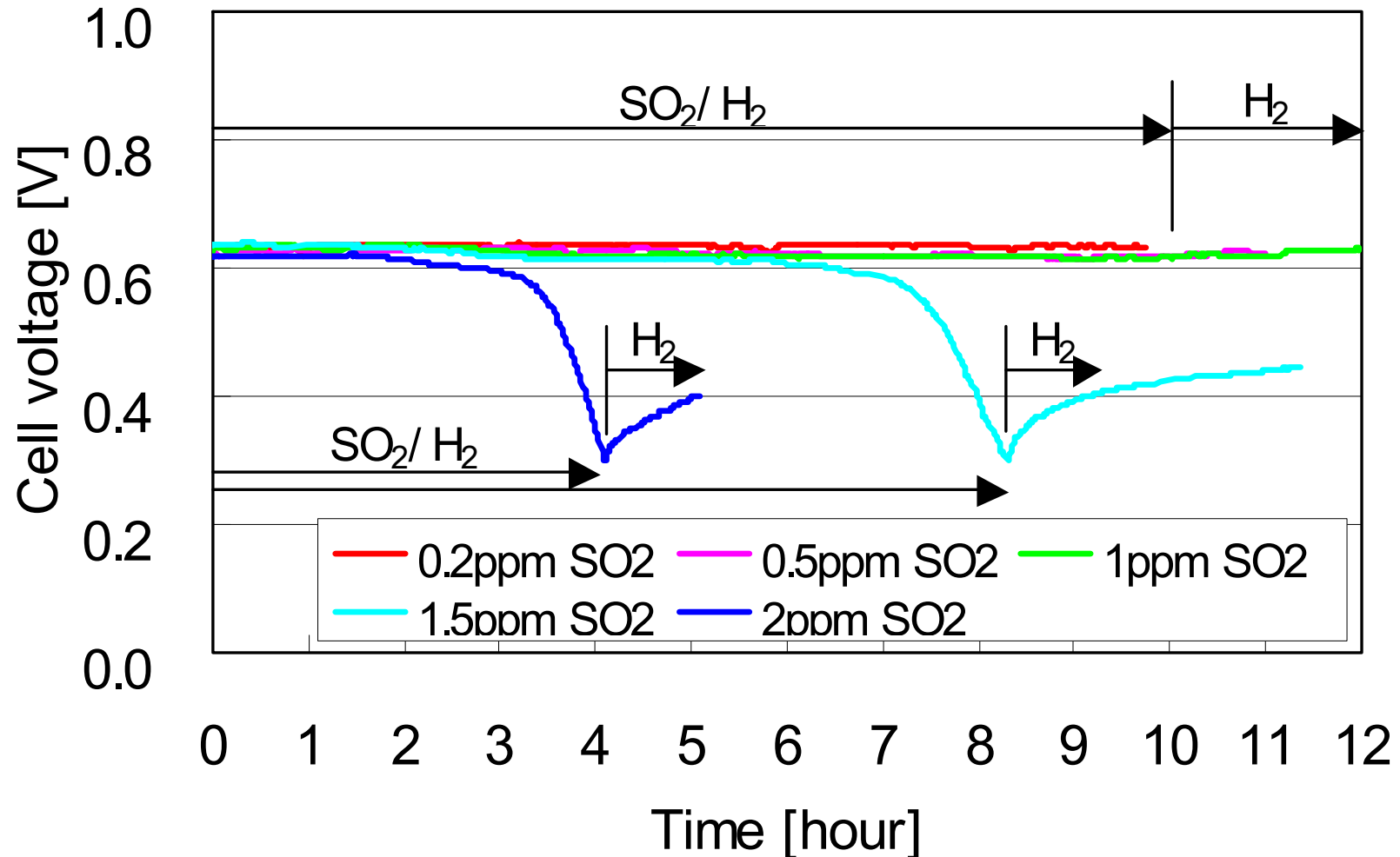
# Flow of making the hydrogen fuel specification

Tentative allowable concentration of impurities in hydrogen

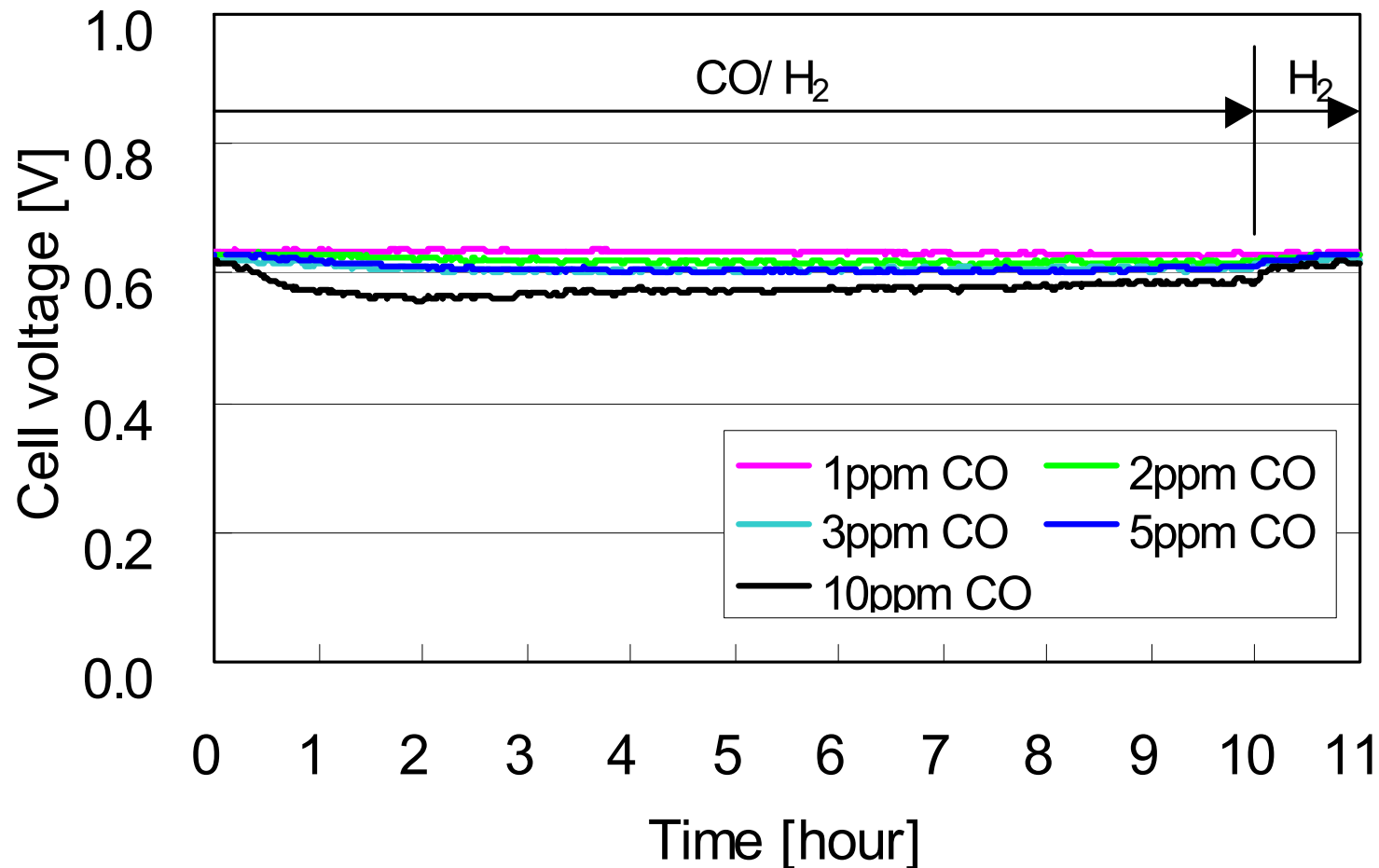


※1/500 value : 1/500 of allowable concentration  
(It is assumed to be 0.2% of the hydrogen dissipation factor by purge.)

# Effect of SO<sub>2</sub> on cell Voltage



# Effect of CO on cell Voltage



# Hydrogen fuel purity and the cost

- Higher purity are preferable for maintain  
the FC stacks' performance
- Higher purity likely to increases  
the production cost  
(lack of data)

→ discussion for compromise