DETERMINING APPROPRIATE SAFETY LEVEL

FOR LITHIUM BATTERY CHARGING

PROBLEM STATEMENT

Lithium-ion battery fires are fast-developing, high-intensity, and difficult to control.

SAFETY LEVELS

- Basic: No containment, high risk
- Intermediate: Procedural controls, moderate risk
- Advanced: Fire containment systems, controlled risk

DECISION FRAMEWORK

- What is the cost of operational downtime?
- What is the cost of a fire incident?
- What level of risk is acceptable?

CONCLUSION

The goal is not to eliminate fire risk, but to control the consequences and ensure business continuity.

KIWA REFERENCE:

> ***"Creates a controllable situation when a lithium-ion battery starts a thermal runaway."*** (Kiwa Test Report, 2025, p.5)

> ***"The temperature on the outside… did not exceed 100°C."*** (Kiwa Test Report, 2025, p.19)

> ***"Containing the fire, controlling the fire…" (***Kiwa Test Report, 2025, p.19)

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