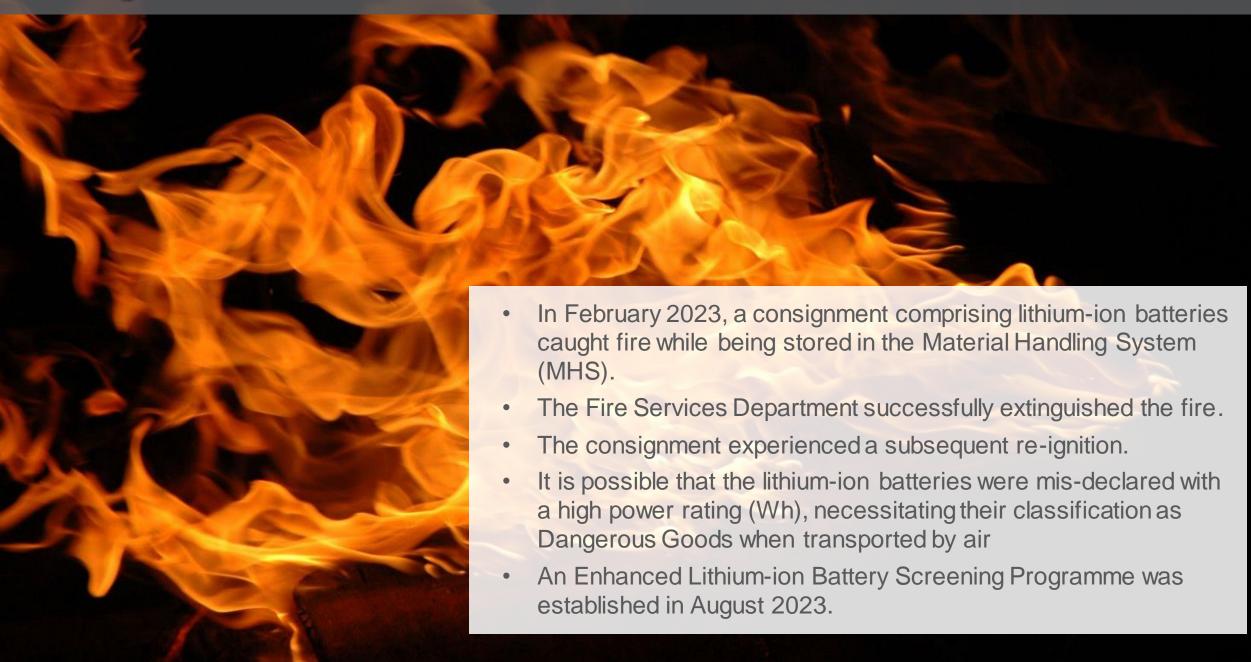


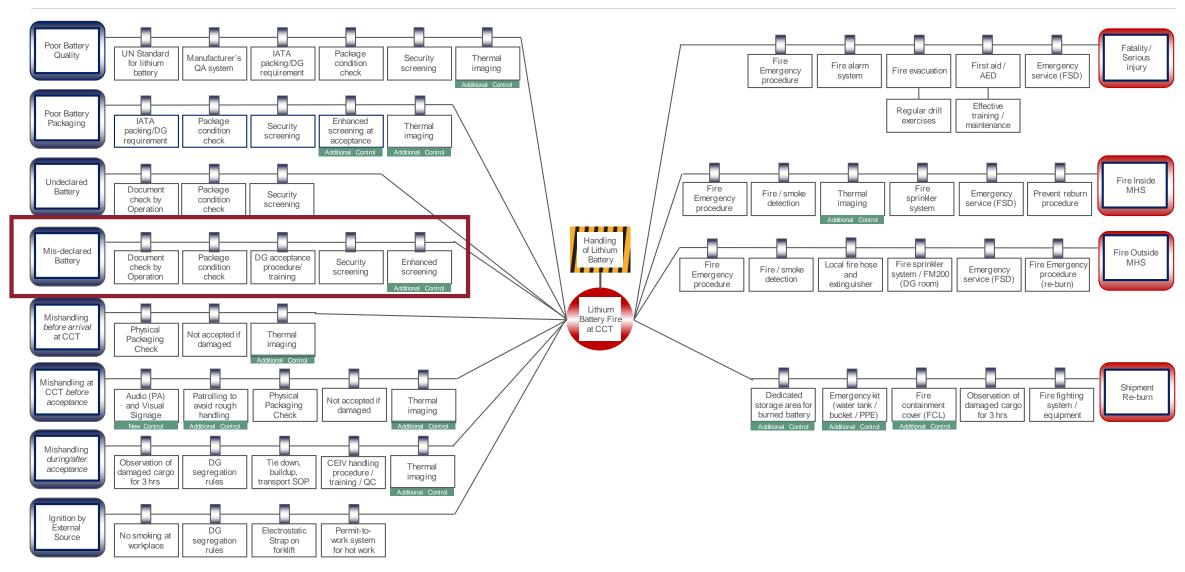
22 January 2024

Background



Bowtie Analysis - Lithium Battery Fire





Confidential and Proprietary Information
© Cathay Pacific Airways Limited and its subsidiaries

Investigation









MIS-DECLARED BATTERY

ROUGH HANDLING

POOR BATTERY QUALITY



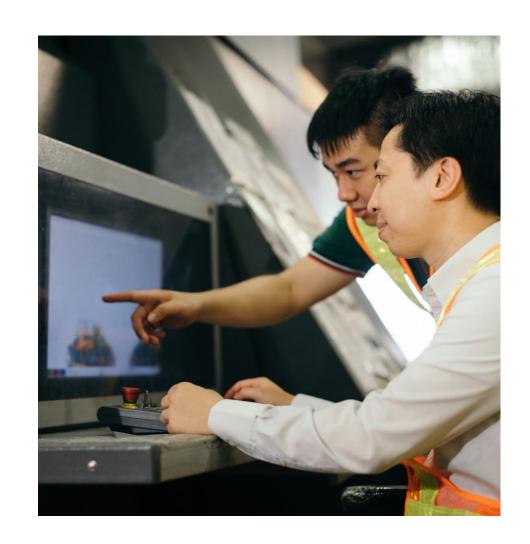
Objectives

- Identify lithium-ion batteries (UN3480, PI965) that have been mis-declared packed with / contained in equipment in loose cargo
- Identify large size, large powered lithium-ion battery in loose cargo (e.g. e-bike, e-scooters, power supply for outdoor equipment)

Result

After the trials with in Jun-Jul 2023, we have:

- built-up X-ray image library to identify the large size and multiple cells batteries
- completed specific training for X-ray screeners
- implemented enhanced X-ray screening at acceptance for all loose cargo in Aug





Previous Screening

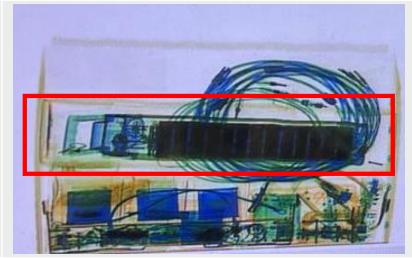
The screener would accept any lithium-ion battery, regardless of size, if it is labelled for Section IB and II.



Enhanced Lithium-ion Battery Screening

If the screener discovers any item containing the following, an alert will be raised:

- a) Lithium battery with multiple cells in a single unit.
- b) Suspected item of large size.





Acceptance

- Loose cargo / shipment
- Outer packing and physical condition check
- Document check
- Security requirement and acceptance procedure

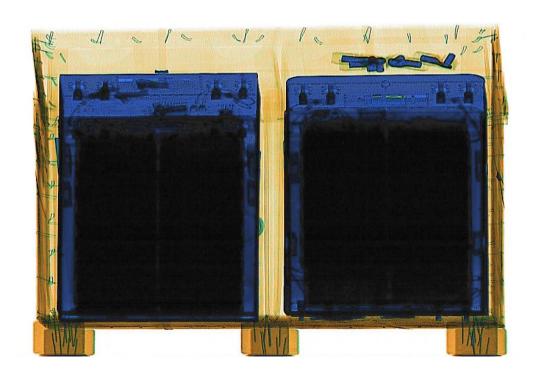
Screening

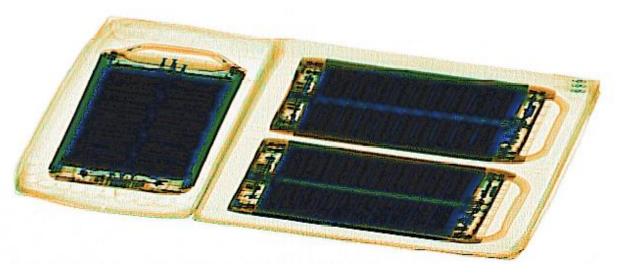
- Solid dark colour
- Unable to penetrate
- High density
- Multi-cells connected in a series (arrays)
- Identify Dangerous Goods without declaration of PI 965 or PI967 (Section I) Lithiumion Batteries

Alert

- Screener reports and holds the shipment in acceptance process
- Terminal / Airlines clarify with agent for the content of shipment
- Reject / Withdraw / Open box check









Confidential and Proprietary Information
© Cathay Pacific Airways Limited and its subsidiaries

Next Step



