



Enhanced screening implementation experience sharing and how AI can help

Real Case Sharing

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RF0060



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Real Case Sharing

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Review the Existing Procedure

2 major weaknesses were found after the review of the existing cargo acceptance procedure

1. Declaration & Documents

- The description of goods is only provided by the co-loader or consignor
→ Assumed no misdeclaration
- Difficult to determine whether the documents, MSDS, etc. provided by the co-loader or consignor match the cargoes

2. Security Inspection by other RACSF

- Go through the security inspection from other RACSFs and deliver the cargo directly to the CTO by the co-loader
- Difficult to determine whether other RACSFs fully comply with the CAD & CX's requirements during security inspection.



Real Case Sharing

The cargo complies with all aviation safety requirements if we rely solely on information provided by co-loaders/consignors and other RACSFs

SECURITY SCREENING RECEIPT

Security Screening [REDACTED] Screening Date & Time: 2023-JUL-10 17:53
Receipt No. [REDACTED]

To Client [REDACTED] CS CO., LTD.

MAWB/HAWB No: [REDACTED] Description:

Received PKG 1 Destination:

Screened PKG (X-Ray)	Passed(Gross Weight KGS)	Failed	Req 2nd check
1	1(213.00)	0	0

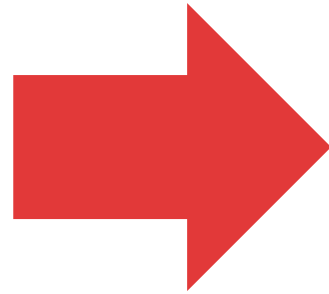
Fail Reason:

PKG has battery label:1
Remark:

SECURITY CHECKED
[REDACTED]

company chop [REDACTED]

Screener ID: [REDACTED]



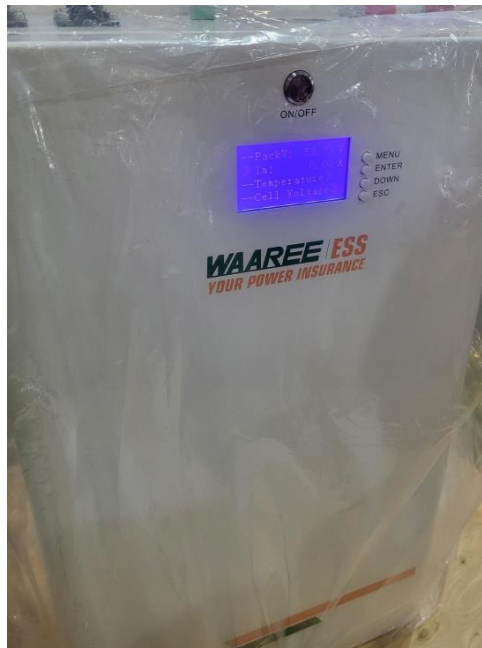
But the **TRUTH** is.....

Security Screening Receipt
provided by the co-loader.



Real Case Sharing

The shipment even did NOT meet the requirements of **Part IA of PI965 (CAO)** and was strictly prohibited from being carried.



Actual Cargo (Home solar power storage device)

Real Screening Image



Solution – Enhance the Security Inspections

Implemented in July 2023 after the occurrence case

1. Not accept co-loader bulk shipment

- The co-loader who borrows our MAWB **CANNOT** deliver the cargo to other RACSF for security inspection

2. Enhance open-box inspection

- Enhance open-box inspections by Cathay Cargo's CAOP (Cargo Agent Operation Program) guidelines to raise the percentage of internal random open-box checks. For new shippers (UNK), will enhance inspections during a specific period of time.

3. The screener knows the product's description before the security inspection

- More accessible to mis-declare cargoes.

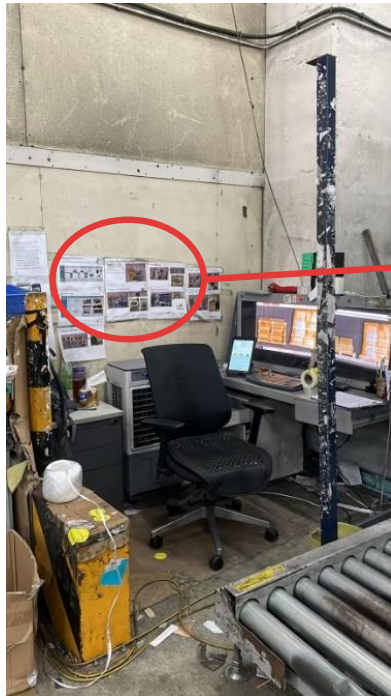


Solution – Enhance the Security Inspections

Implemented in July 2023 after occurrence case

4. Briefing the RACSF regularly.

- Brief the latest information or incidents from the CAD and airlines.
- Post matters requiring attention in a conspicuous location



Purpose & Background 以下可能會有較大電池的物品。

- Purpose of enhanced screening is to identify lithium ion batteries (UN3480, PI905) that has been mis-declared as lithium ion batteries packed with / contained in equipment (UN3481, PI906 / PI907)
- This is due to the increasing trend of consumer products powered by lithium batteries

Examples of these consumer products:

Product	E-scooters	E-bikes	Power supply for outdoor equipment	Power supply for solar powered devices	Miscellaneous products in irregular shapes
Image					
Example battery dimension	3.8cm * 11cm * 41cm	8.5cm * 13.5cm * 49cm	6.5cm * 21.5cm * 39cm	5.5cm * 6.6cm * 11cm	Various new products in different sizes and shapes

Open Box criteria 見到此種深色、不可穿透、高密度、多電池組合而成的，必須開箱檢查。

	Current	Enhanced (on top of current open box criteria)
Commodities	Commodities include Liquids, Powders, Batteries	Darkness shown in x-ray images showing all identification labels : <ul style="list-style-type: none">• Solid dark colour• Unable to penetrate• High density• Lithium battery array (multiple cells in a single unit)
Documentation	Documented declaration against shipment content	X-ray images showing the above qualities, without declaration of fully regulated lithium ion batteries UN3480 PI905

Example of x-ray images requiring 100% open box:

**** Images showing a single lithium battery unit consisted of multiple lithium cells**

CAOP Enhanced Screening



Battery weight restrictions



Solution – Enhance the Security Inspection

When briefing the RACSF, we draw primarily on Cathay Cargo’s CAOP (Cargo Agent Operation Program) information. The primary purpose is to identify & screen out mis-declared lithium battery products (i.e. PI965 from PI 966/967) and intercept them at our warehouse, yielding positive results.



Examples:

Product	E-scooters	E-bikes	Power supply for outdoor equipment	Power supply for solar powered devices	Miscellaneous products in irregular shapes
Image					
Example battery dimension	3.8cm * 11cm * <u>41cm</u>	8.5cm * 13.5cm * <u>40cm</u>	6.5cm * 21.5cm * <u>30cm</u>	5.5cm * 6.6cm * <u>11cm</u>	Various new products in different sizes and shapes

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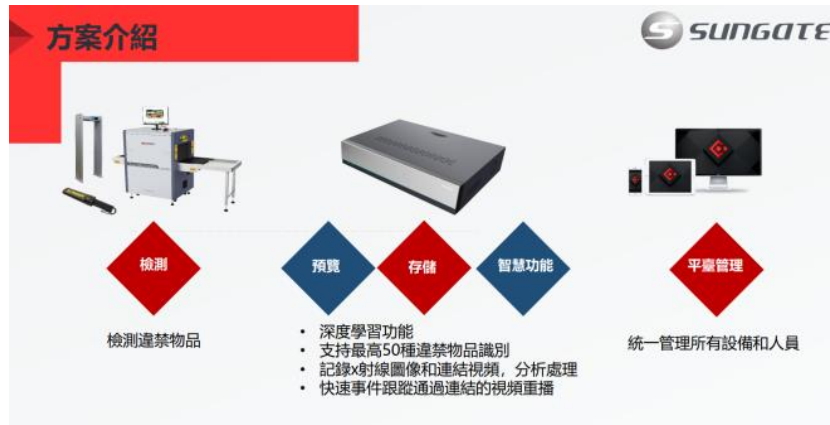
	Current	Enhanced (on top of current open box criteria)
Commodities	Commodities include Liquid, Powder, Batteries	Darkness shown in x-ray images: <ul style="list-style-type: none"> Solid dark colour Unable to penetrate High density
Documentation	Documented declaration against shipment content	X-ray images showing the above qualities, without declaration of fully regulated lithium ion batteries UN3480 PI965

** images showing a single lithium battery unit consisted of multiple lithium cells

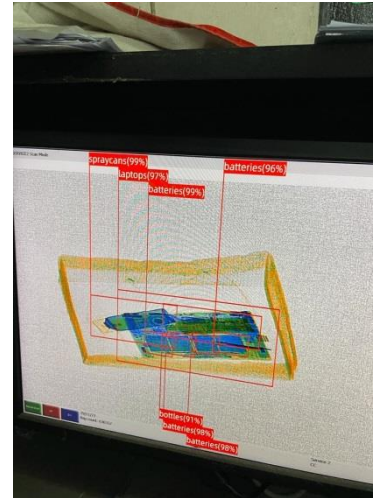
Further Planning

Plans are underway to improve security check accuracy in the future

Evaluating the purchase of an AI-assisted screener to improve the accuracy of detecting mis-declared dangerous goods.



Solutions provided by AI company



Experimental operation in our RACSF



But this is far from
enough to ensure
air cargo safety...



Regarding the issue of mis-declared dangerous goods, we are working hard to resolve this issue.

However, due to the collaborative nature of the industry, negligence in any link may cause serious aviation incidents. This requires the cooperation of the entire industry to solve.



Q & A



THANK YOU

