

Status on HALON contamination

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Contaminated Halon

Background

- K UK based company delivered polluted Halon (H1211 / H1301)
- 17 Customers identified
- EASA / CAA UK approach individually each company involved in Aviation either as PartM /Part145
- Wide variety of applications: handheld, enigne, APU, cargo for General aviation, Helicopters & Large airplanes



EASA global approach for Halon 1211

- Identification of the suspected batches
 Test of the suspected batches
- ★ According to the results (purity <90%) issuance of AD with defined applicability (P/N, S/N)
- For all batches with 90% < purity < 99% FAA-TC Tests done with different levels of contaminants to determine compliance time for future ADs



As of today, EASA has issued 7 ADs covering: X Portable extinguishers FFE Total number of FE: around 5000 Portable extinguishers Sicli H1-10 AIR (formerly) General Incendie MAIP) Total number of FE: around 1400 FE 🛪 L'hotellier Total number of FE: around 1800 for ATR, **Eurocopter and Socata**) Most of batches have now been tested. ADs were issued where no test results available

New set of ADs might be issued to cover lower levels of purity depending on test results



Halon 1211 is used also on engine fire extinguishing
 Fixed extinguishers L'H

 Total number of FE: around 120

 Risk under EASA assesment for Dassault
 Correctives actions in place for Eurocopter



Level of risk is still under assessment taking into account: Less toxicity impact for engines and APU

Purity % vs Fire suppression capability o be assessed on a case-by-case basis

Compliance with applicable engine fire suppression specifications

Decision on way forward to be taken



References

AD	Title	Releas. date	Effectiv. date	Comp.	Remark
EASA 2009-0251-E	FFE H1211 - Handheld	25.11.0 9	26.11.09	2d	483 units
EASA 2009-0262	FFE H1211 - Handheld-	23.12.09	29.12.09	30d	FFE ASB-26-115 2317 units
EASA 2009-0262 R1	FFE H1211 – Handheld	27.01.1 0	10.02.10	30d from origin	SB ASB-26-115 Revision C for S/N list – 1 more S/N
EASA 2009-0278	SICLI H1211 - Handheld	22.12.0 9	05.01.10	30d	1422 units
EASA 2009-0276	ATR – H1211 – Handheld – L'Hotellier	23.12.09	06.01.10	36d	SB 83521-26-001 orign issue 21.12.09 1582 units (L'Hotellier total)
EASA 2009-0276 R1	ATR – H1211 – Handheld – L'Hotellier	05.02.10	05.02.10	4m from origin	SB 83521-26-001 revision 1, 28.01.10



References

AD	Title	Releas. date	Effectiv. date	Comp.	Remark
EASA 2009-0277	ECF– H1211 – Handheld – L'Hotellier	23.12.09	06.01.10	36d	SB 83520-26-001 orign issue 21.12.09 1582 units (L'Hotellier total)
EASA 2009-0277 R1	ECF– H1211 – Handheld – L'Hotellier	05.02.10	05.02.10	6m from origin	SB 83520-26-001
EASA 2010-0012	SOCATA– H1211 – Handheld – L'Hotellier	05.02.10	12.02.10	3m	SB 83520-26-001, dated 21.12.09 SB 70-183(26), jan 2010 1582 units (L'Hotellier total)
EASA 2010-0061	ATR – H1211 Handheld – L'hotellier	31.03.10	14.04.10	4m from origin 4m (for new S/N)	Supersedes EASA 2009-0276 R1 with same applicability + S/N QL71732 to QL71770
EASA 2010-062	FFE H1211 – Handheld-	31.03.10	14.04.10	4m	SB 26-116



References

Airworthiness Communication from CAA-UK
 AIRCOM 2009/13, dated 12 Oct 2009
 Flight Ops Communication from CAA-UK
 FODCOM 30/2009, dated 12 Oct 2009
 Safety Information Bulletin from EASA
 \$IB 2009-39, dated 23 oct 2009



Contaminated Halon/ICAO state letter

ICAO state letter was released on 12th of January 2010

This letter does not formally require answer

It requires Member States « to assess halon fire extinguishing supplies and take action as appropriate »

Based on this letter, the strategy chosen by the Agency in cooperation with the EC is the following :



Contaminated Halon/ICAO state letter / EASA position

As a short term action

The Agency has already issued an SIB to raise awareness of Air operators, AMOs, aviation suppliers and manufacturers. The SIB will be up-dated.

As a mid/long term action

Based on the recent events of falsified documents, reliance on documentation to ensure quality of halon is not enough



Contaminated Halon/ICAO state letter

The key for quality can only be to determine the adequate test methods

The Agency plans to draft AMC applicable to Production Organisations and Maintenance organisations for guidance on how to perform the quality inspection of halon at incoming inspection

The answer to the State letter is under drafting at the Agency/EC and will be released by the European Commission.



Thank you

 IASFPWG - 18-19 May 2010 - London
 Certification Directorate