Lufthansa Cargo Facts & Figures

Lufthansa Cargo
7 Boeing 777 Freighter
7 MD 11 Freighter
Lufthansa Cargo Facts & Figures

Lufthansa Cargo’s Animal Lounge in Frankfurt is the world’s most modern airport animal facility.

Network: 440 stations
Horses: 2,400
Ornamental Fish: 80 Mio
Zoo Animals: 150
Dogs & Cats: 18,000
Why does Lufthansa Cargo need a Process for Animal Disease

- Lufthansa Cargo transports animals and goods around the world
- No global SOPs for the disinfection of cargo aircraft and compartments in place that have transported animals infected with pathogens
- German Federal Ministry of Food and Agriculture released the new Animal Health Act for the prevention of animal diseases and animal epidemics
- African Swine Fever (ASF), BSE - Bovine Spongiforme Enzephalopathie, Blue Tongue, Avian Influenza are the worldwide main disease
- High risk of spreading animal diseases by air transport

“animal diseases do not stop at national borders”
Challenges to identify an Appropriate Disinfectant

- Aircraft must be cleaned and disinfected in all affected areas even if they are not easy to access.
- Disinfectants can cause serious damage to the materials used to manufacture aircrafts.
- LHT tested disinfectants for their suitability in these highly challenging situations.
- Acid-based disinfectants, especially in high concentrations, may result in serious damage, such as corrosion, to a plane’s electrical supply system or wiring.
- It is imperative to ensure that the use of a disinfectant has no negative effect on any of the materials used in the construction of the aircraft.

No impact of airworthiness
Approved Disinfectant

3.1. Disinfectants overview

Following disinfection-agents are approved by Lufthansa Technik AG and international requirements. Please mark the disinfectant to be used in the following overview:

<table>
<thead>
<tr>
<th>Disinfectants:</th>
<th>LH</th>
<th>LCAG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aldasan 2000</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>LCAG Animal Disease Process</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Lufthansa material tested several Disinfectant to ensure safe use in A/C
- Only one Disinfectant fullfills material requirements

Due to regional requirements, Lufthansa Cargo as German Carrier is limited to Disinfectant listed on DVG List (German Veterinary Medical Society)
Process for Animal Disease

Process participants:
- Local Authority
- Station Manager Cargo Handling (F/H)
- LCAG Production Manager (F/1F-P)
- OPS Control LCAG V2 FRA V/OC-O
- Medical Services PM/P
- Maintenance Control Aircraft Movement FRA V/OT-S
- Duty Manager Lufthansa Technik 7/72522
- Technical Operations Control FRA V/OT 24h Hotline FRA V/OT-M FRA V/OP
- Technic station

Process activities to do:
- Inform about suspicion case
- Collect and distribute information
- Check the transport route
- Information to OPS Control Third Party / LCAG V/OC-O
- Assurance of certification according AIC-H-Form
- Assignment A/C Disinfection Local Disinfectant (Station only)
- Coordination of measures
- Assignment A/C Disinfection
- Information to Medical Services
- Checking the risk for people Determining the measures
- Response to Ops Control
- Coordination with Technic Collect information Process checklists
- Collect Information Process checklists
- Assignment Disinfection
- Define and coordinate measures Aircraft
- Release A/C Disinfection
- FRA / Disinfection Via FRA
- Disinfection On-Site
- Verification certificate
- CRS of A/C
Animal Disease Measure - Form (ADM)

- Lufthansa's ADM Form includes various certificates for authorities and disinfectors on which the disinfection is certified and the authority certifies the possible pathogen.
- This Certificates contain on Board of our A/C and will be archived with the A/C documentation.
- The ADM Form also contains a detailed description how to perform the disinfection.

3. Veterinary Authority Section
- Authority / Medical Staff: Information (please complete):
- National Veterinary Authority: 
- Name of responsible adviser: 
- Supposed animal disease: 
- Disinfection required (Yes/No): 
- Disinfection order received by (Name/Authority/Function): 
- Mobile/phone number: 
- Authority staff: 
- Email address: 
- Remarks: 

4. Disinfector's section:
- Disinfection: Information (please complete):
- Disinfection company: 
- Location: 
- Date: 
- Name: 
- Mobile number: 
- Disinfection method: 
- Supposed animal disease: 
- Disinfector(s) used: 

Inflights actions for cockpit crew:
- For cockpit crew: (please see below) 

Thinning:
- Used quantity ml (dosage):
- Explosion limit % LEL (if required): 

Time of treatment (hours): 
- Time of ventilation (hours): 
- Disinfection started / ended:

Disinfection accomplished, according to order given by Veterinary Authority:
- (Name / signature / stamp of disinfector)
Thank you for your attention

Claudius Haase
Senior Manager Global Handling Special Processes
Claudius.Haase@dlh.de
+49 151 589 28 926