

Recalled Lithium Battery Devices - Local NOTAC

Attention Students and Instructors:

With immediate effect it is CAE Oxford Aviation Academy policy that any Samsung Galaxy Note7 device will NOT be permitted aboard the aircraft.

The Department of Transportation (DOT) has banned all Galaxy Note 7 devices from all flights within the United States effective October 15th, 2016 at noon ET.

Also, see guidance from EASA attached below.

Similarly, the FAA has released guidance material regarding carriage of lithium ion batteries in a Safety Alert for Operators which was released on September 16th. While this guidance is for Transport aircraft only and not directed towards training aircraft, it is still good information. Please take note of the Discussion section of the Alert as guidance for determining if your lithium ion battery may be a risk to you in flight. As always, keep your lithium ion batteries within reach in flight and properly stowed so they do not become damaged. Flying with a damaged battery is never a good idea.

Fly Safely,
Brent Crow
Safety Officer – CAE OAA Phoenix

- Attached below - EASA Safety Information Bulletin – *Fire hazards associated with Samsung Galaxy Note7 devices.*
- FAA SAFO – *Air Transport Restrictions for Recalled Lithium Batteries and Recalled Lithium Battery Devices.*
- DOT Press Release – *DOT Bans All Samsung Galaxy Note7 Phones from Airplanes*

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EASA SIB No.: 2016-13



Safety Information Bulletin Operations

SIB No.: 2016-13

Issued: 09 September 2016

Subject: Fire hazards associated with Samsung Galaxy Note7 devices

Ref. Publications:

- EASA Safety Information Bulletin (SIB) [No. 2009-22R1](#);
- Commission Regulation (EU) No [965/2012](#) of 5 October 2012;
- International Civil Aviation Organisation (ICAO) [Document 9284](#), Technical Instructions for the Safe Transport of Dangerous Goods by Air (hereafter referred to as the Technical Instructions);
- ICAO Doc. 9481, 'Emergency Response Guidance for Aircraft Incidents Involving Dangerous Goods'.

Applicability:

Aircraft Operators.

Description:

The Agency took note of the official communication¹ issued by Samsung Corp. informing its customers about the recently reported incidents concerning the Samsung Galaxy Note7 devices.

According to Samsung Corp., as a result of the investigation carried out the company learned that there is an issue with the battery cell. As a consequence, Samsung Corp. has decided to replace the devices.

Recommendations:

Considering the above mentioned information, the European Aviation Safety Agency recommends that operators ensure that:

- Passengers and crew keep any Samsung Galaxy Note7 device that has not been replaced as mentioned above turned off, do not charge it while on board of the aircraft and do not put these devices inside the checked baggage; and
- Passengers are reminded of the need to immediately inform the cabin crew when a device is damaged, hot, produces smoke, is lost, or falls into the seat structure.

Contact:

For further information contact the EASA Safety Information Section, Certification Directorate.

E-mail: ADs@easa.europa.eu.

¹ <http://www.samsung.com/uk/note7exchange/>

This is information only. Recommendations are not mandatory.



An agency of the European Union

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U.S. Department
of Transportation
Federal Aviation
Administration

SAFO

Safety Alert for Operators

SAFO 16011
DATE: 9/16/16

Flight Standards Service
Washington, DC

http://www.faa.gov/other_visit/aviation_industry/airline_operators/airline_safety/safo

A SAFO contains important safety information and may include recommended action. SAFO content should be especially valuable to air carriers in meeting their statutory duty to provide service with the highest possible degree of safety in the public interest. Besides the specific action recommended in a SAFO, an alternative action may be as effective in addressing the safety issue named in the SAFO.

Subject: Air Transport Restrictions for Recalled Lithium Batteries and Lithium Battery Powered Devices

Purpose: This SAFO alerts air carriers to the requirements of the United States (U.S.) Department of Transportation (DOT) Hazardous Materials Regulations (HMR) and the International Civil Aviation Organization (ICAO) Technical Instructions for Safe Transport of Dangerous Goods (ICAO TI).

Background: The U.S. DOT HMR and ICAO TI both prohibit air cargo shipments of lithium batteries and lithium battery powered devices when they are the subject of a safety recall or when the lithium battery has been identified by the manufacturer as having a safety defect. Passenger carriage of defective/recalled lithium batteries and devices with lithium batteries installed may also be restricted depending on the nature of the risk and the recall safety instructions. This SAFO is published in conjunction with a US DOT Pipeline and Hazardous Materials Safety Administration (PHMSA) safety advisory which will be published in the Federal Register on September 20, 2016. The safety advisory may be viewed at the following link: http://www.phmsa.dot.gov/staticfiles/PHMSA/DownloadableFiles/Files/Safety_Advisory_Admin_Signed09152016182505.pdf.

Discussion: The HMR prohibition on the air cargo transport of recalled batteries can be found in Title 49 of the Code of Federal Regulations (49 CFR) § 173.185(f). The ICAO TI contains this prohibition in special provision A154 and in packing instructions 965 through 970.

- A. Air Cargo.** The HMR and ICAO TI prohibit the air cargo transport of lithium batteries that:
- Have been damaged,
 - Have been identified by the manufacturer as being defective for safety reasons, or
 - Have the potential of producing a dangerous evolution of heat, fire, or short circuit (*e.g.*, those being returned to the manufacturer for safety reasons).

Additionally, the HMR (49 CFR § 173.21) forbids the transport of batteries and battery-powered devices which are likely to create sparks or generate a dangerous evolution of heat, unless packaged in a manner which precludes such an occurrence.

- B. Carriage by Passengers and Crew.** Lithium batteries and lithium battery powered devices carried by the passengers and crew are subject to the conditions of 49 CFR § 175.10(a)(18) which include:
- Avoiding the “forbidden” conditions of 49 CFR § 173.21 stated above.

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- Each installed or spare lithium battery must be of a type proven to meet the requirements of each test in UN Manual of Tests and Criteria, part III, subsection 38.3.

If a battery or device cannot meet these conditions and the other requirements of 49 CFR § 175.10(a)(18) it may not be carried by passengers and crew. Additional information on passenger carriage of batteries and hazardous materials is available at:

<http://www.faa.gov/Go/PackSafe>.

As detailed by PHMSA in its safety advisory, in some cases, where the hazard occurs during charging or using a device, it may be possible to safely carry the device if it is turned off, disconnected from power sources, kept in carry-on baggage or on the person, and protected against accidental activation (including disabling any features that turn on the device such as alarm clocks).

- C. **Repaired and Replaced Devices.** Recalled lithium battery powered devices that have been repaired or have had battery components replaced as required by the recall notice are not subject to the restrictions on recalled lithium batteries. It should be noted that it is often difficult to distinguish products that are subject to a recall from those that are not. Many product recalls only affect certain batches of serial numbers of the same product model. Other recalled products carried by passengers or shipped as cargo may have already been repaired or had the defective lithium batteries replaced. Therefore, active screening methods at the point of acceptance or check-in may be difficult.

Recommended Action: Air operators are urged to consider the following recommendations:

- Operator personnel responsible for cargo processing should know and understand that damaged or safety-recalled lithium batteries—including those installed in equipment and devices—are forbidden on aircraft as air cargo.
- Operator personnel responsible for passenger processing and cabin safety should know and understand that damaged or recalled lithium batteries—including those installed in devices—may be restricted from carriage or use on the aircraft.
- All crewmembers and ground personnel handling passengers and baggage must understand that they shall report incidents where fire, violent rupture, explosion, or heat sufficient to be dangerous to packaging or personal safety has occurred. This includes charring, melting, or scorching of packaging, or other evidence that may indicate the involvement of a battery or battery-powered device (per 49 CFR §171.15/16).
- During ticket purchase and check-in processes, inform passengers that spare lithium batteries are prohibited from checked baggage (including checked baggage at the gate) and refer passengers to FAA's Pack Safe website for additional information (<http://www.faa.gov/Go/Packsafe>).
- Evaluate training and communication protocols in operations with respect to lithium batteries, personal and medical electronic devices, and mobility aids.
- Include information about damaged and recalled lithium batteries and devices in the operator's online guidance and other public notices regarding hazardous materials in cargo and baggage.

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- Identify recent and active cargo shippers and forwarders likely to offer lithium batteries and devices, including those partially-excepted lithium battery shipments that do not require full declaration to the operator. Ensure that these cargo customers are aware of the prohibition on damaged and recalled lithium batteries and lithium battery-powered devices.

No information contained in this SAFO or in the HMR precludes an air operator from proactively placing its own restrictions on the carriage, onboard use, or onboard charging of specific lithium battery products prior to an official government-facilitated recall or prior to an FAA or PHMSA advisory.

Product Recall Information: In the U.S., safety recalls of consumer electronics and batteries are officially issued through the Consumer Products Safety Commission (CPSC). The CPSC recalls are available at: <http://www.cpsc.gov/en/Recalls/>. Additional recalls from around the world are available at: <http://globalrecalls.oecd.org/>.

Contact: Questions or comments regarding this SAFO should be directed to the FAA Office of Hazardous Materials Safety, ADG-1, at (202) 267-9432.

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Press Release

Briefing Room

DOT Bans All Samsung Galaxy Note7 Phones from Airplanes

WASHINGTON – The U.S. Department of Transportation (DOT), with the Federal Aviation Administration (FAA) and the Pipeline and Hazardous Materials Safety Administration (PHMSA), today announced it is issuing an emergency order to ban all Samsung Galaxy Note7 smartphone devices from air transportation in the United States. Individuals who own or possess a Samsung Galaxy Note7 device may not transport the device on their person, in carry-on baggage, or in checked baggage on flights to, from, or within the United States. This prohibition includes all Samsung Galaxy Note7 devices. The phones also cannot be shipped as air cargo. The ban will be effective on Saturday, October 15, 2016, at noon ET.

“We recognize that banning these phones from airlines will inconvenience some passengers, but the safety of all those aboard an aircraft must take priority,” said Transportation Secretary Anthony Foxx. “We are taking this additional step because even one fire incident inflight poses a high risk of severe personal injury and puts many lives at risk.”

Device owners have experienced documented incidents of dangerous evolution of heat with both recalled and replacement Samsung Galaxy Note7 devices. Samsung and the U.S. Consumer Product Safety Commission (CPSC) acknowledged this imminent safety hazard with the company’s September 15, 2016 and October 13, 2016 recalls. Additionally, on October 11, 2016, Samsung suspended the manufacture and sale of the Samsung Galaxy Note7 device.

“The fire hazard with the original Note7 and with the replacement Note7 is simply too great for anyone to risk it and not respond to this official recall,” said CPSC Chairman Elliot F. Kaye. “I would like to remind consumers once again to take advantage of the remedies offered, including a full refund. It’s the right thing to do and the safest thing to do.”

What air travelers should know

If passengers attempt to travel by air with their Samsung Galaxy Note7 devices, they will be denied boarding.

Passengers who attempt to evade the ban by packing their phone in checked luggage are increasing the risk of a catastrophic incident. Anyone violating the ban may be subject to criminal prosecution in addition to fines.

Passengers currently traveling with Samsung Galaxy Note7 phones should contact Samsung or their wireless carrier immediately to obtain information about how to return their phones and arrange for a refund or a

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replacement phone. Samsung has provided guidance for customers about refund and replacement options, as well as how to contact wireless carriers, at <http://www.samsung.com/us/note7recall/> [external link]. Samsung is also answering customers' questions at 1-844-365-6197.

If an airline representative observes that a passenger is in possession of a Samsung Note7 device prior to boarding an aircraft, the air carrier must deny boarding to the passenger unless and until the passenger divests themselves and their carry-on and checked baggage of the Samsung Galaxy Note7 device. Passengers absolutely should not pack the phones in their checked luggage.

If a flight crew member identifies that a passenger is in possession of a Samsung Galaxy Note7 device while the aircraft is in flight, the crew member must instruct the passenger to power off the device, not use or charge the device while aboard the aircraft, protect the device from accidental activation, including disabling any features that may turn on the device, such as alarm clocks, and keep the device on their person and not in the overhead compartment, seat back pocket, nor in any carry-on baggage, for the duration of the flight.

The Samsung Galaxy Note7 device is considered a forbidden hazardous material under the Federal Hazardous Material Regulations (HMR; 49 CFR Parts 171-185), which forbid airline passengers or crew from traveling with lithium cells or batteries or portable electronic devices that are likely to generate a dangerous evolution of heat. PHMSA has issued a special permit to Samsung to facilitate commercial shipment of the recalled devices by ground transportation.

The Emergency Order will be on display in the Federal Register display on Friday, October 14, 2016, and the ban will be effective on Saturday, October 15, 2016, at noon ET. For additional information on the recall, visit the CPSC website at www.cpsc.gov.

For additional information on returning your recalled Galaxy Note7 device to the manufacturer, call 1-800-SAMSUNG or 1-800-726-7864 or visit the website: <http://www.samsung.com/us/note7recall/> [external link]

For additional information about safe travel with lithium batteries and other potentially hazardous materials, visit the DOT Safe Travel Website at <http://phmsa.dot.gov/safetravel/batteries>.

Additional passenger information from the FAA is available at: <http://www.faa.gov/Go/PackSafe>. For all other questions about the transportation of hazardous materials, contact PHMA's Hazardous Materials Information Center at 1-800-467-4922 or infocntr@dot.gov

Email links icon

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DOT 127-16

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Friday, October 14, 2016