
FIRE DEPARTMENT SERVICE ANNOUNCEMENT

International Entities
 Using PFAS-free Firefighting Foams, Bulletin #37
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<u>International Entities</u>	<u>Location</u>	<u>Year</u>
Auckland Airport	Auckland, New Zealand	2019 ¹
All 27 major Australian airports including Melbourne Metropolitan Fire Brigade (changed over in 2014)	Australia	2018 ²
Bristol Airport	Bristol, England, United Kingdom	2019 ³
Brussels Airport	Brussels, Belgium	2018 ⁴
Charles de Gaulle Airport	Paris, France	2020 ⁵
Copenhagen Airport	Copenhagen, Denmark	2009 ⁶
Danish Royal Air Force	Denmark	Pre-2019 ⁷
Denmark Armed Forces	Denmark	Pre 2018 ⁷
Dortmund Airport	Dortmund, Germany	2019 ⁸
Dubai International Airport	Dubai, United Arab Emirates	2018 ⁹
Edinburgh Airport	Scotland, United Kingdom	2019 ¹⁰
Gatwick Airport	West Sussex, England, United Kingdom	2019 ¹¹
Guernsey Airport	Channel Islands	2014 ¹²
Heathrow International Airport	London, England, United Kingdom	2012 ¹³
Köln-Bonn Airport	Köln-Bonn, Germany	Pre-2018 ¹⁴
Leeds Bradford Airport	West Yorkshire, London, United Kingdom	2019 ¹⁵
London City Airport	London, England, United Kingdom	2019 ¹⁶
Lyon Airport	Lyon, France	¹⁷
Manchester Airport	Manchester, England, United Kingdom	2019 ¹⁸
Norway – most civil airports	Norway	2014 ¹⁹
Norwegian Armed Forces	Norway	Pre 2018 ²⁰
Nürnberg Airport	Nürnberg, Germany	²¹

With much appreciation to Marcel Biervliet, International channel manager Fluorine Free Foam proportioning technology for his help in providing the information on the international entities that have switched over to fluorine-free firefighting foams.

1 IPEN, Peer-Reviewed Publication, News Release, Fire-safety sectors call for global PFAS ban, no loopholes for toxic firefighting foam, 1-May-2019, <https://www.eurekaalert.org/news-releases/491664>

2 ibid.

3 ibid.

4 Firsthand knowledge of Marcel Biervliet, International channel manager Fluorine Free Foam proportioning technology

- 5 International Airport Review, Is the burst of the AFFF bubble a precursor to long term environmental liabilities? 29 July 2019, Ian Ross, Ph.D., <https://www.internationalairportreview.com/article/98795/fire-fighting-foam-chemicals-water/>
- 6 Firsthand knowledge of Marcel Biervliet, International channel manager Fluorine Free Foam proportioning technology and Type Investigations, Replacing Toxic Firefighting Foam, Sharon Lerner, February 10, 2018, <https://www.typeinvestigations.org/investigation/2018/02/10/12566/>
- 7 EurekAlert! AAAS, News Release, Fire-safety sectors call for global PFAS ban, no loopholes for toxic firefighting foam, 1-May-2019, Peer-Reviewed, IPEN, <https://www.eurekalert.org/news-releases/491664> and EWG, It's Time To Switch to PFAS-Free Firefighting Foams, Melanie Benesh (EWG), undated, <https://www.ewg.org/news-insights/news/its-time-switch-pfas-free-firefighting-foams>
- 8 International Airport Review, Is the burst of the AFFF bubble a precursor to long term environmental liabilities? 29 July 2019, Ian Ross, Ph.D., <https://www.internationalairportreview.com/article/98795/fire-fighting-foam-chemicals-water/>
- 9 ibid.
- 10 Firsthand knowledge of Marcel Biervliet, International channel manager Fluorine Free Foam proportioning technology and EurekAlert! AAAS, News Release, Fire-safety sectors call for global PFAS ban, no loopholes for toxic firefighting foam, 1-May-2019, Peer-Reviewed, IPEN, <https://www.eurekalert.org/news-releases/491664>
- 11 ibid.
- 12 IPEN, Peer-Reviewed Publication, News Release, Fire-safety sectors call for global PFAS ban, no loopholes for toxic firefighting foam, 1-May-2019, <https://ipen.org/news/fire-safety-regulators-scientists-industry-representatives-call-global-ban-pfas-chemicals-no>
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- 14 ibid.
- 15 ibid.
- 16 Firsthand knowledge of Marcel Biervliet, International channel manager Fluorine Free Foam proportioning technology and EurekAlert! AAAS, News Release, Fire-safety sectors call for global PFAS ban, no loopholes for toxic firefighting foam, 1-May-2019, Peer-Reviewed, IPEN, <https://www.eurekalert.org/news-releases/491664>
- 17 JOIFF Foam Summit presentation, February 10, 2020, Olivier Houlbert & Thierry Delerue, p. 35, https://joiff.com/wp-content/uploads/2020/02/Olivier-Houlbert-Bio-Ex-Foam_-_Transitioning-from-AFFF-to-FFF.pdf
- 18 International Airport Review, Is the burst of the AFFF bubble a precursor to long term environmental liabilities? 29 July 2019, Ian Ross, Ph.D., <https://www.internationalairportreview.com/article/98795/fire-fighting-foam-chemicals-water/> and EurekAlert! AAAS, News Release, Fire-safety sectors call for global PFAS ban, no loopholes for toxic firefighting foam, 1-May-2019, Peer-Reviewed, IPEN, <https://www.eurekalert.org/news-releases/491664>
- 19 The use of PFAS and fluorine-free alternatives in fire-fighting foams, Final Report, ECHA 2018, Wood. Ramboll COWI, p. 185, https://echa.europa.eu/documents/10162/28801697/pfas_flourine-free_alternatives_fire_fighting_en.pdf/d5b24e2a-d027-0168-cdd8-f723c675fa98
- 20 EWG, It's Time To Switch to PFAS-Free Firefighting Foams, Melanie Benesh (EWG), undated, <https://www.ewg.org/news-insights/news/its-time-switch-pfas-free-firefighting-foams>
- 21 Firsthand knowledge of Marcel Biervliet, International channel manager Fluorine Free Foam proportioning technology

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An ARFF - Aircraft Rescue & Firefighting - vehicle shown in action. Photo by William Greenwood

