



# Aircraft Fleet Recycling Association

## Best Management Practices

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# AFRA is a Leading Voice for Industry



- 69 companies from 18 countries + territories
- Best Management Practices & Cutting Edge Recycling Technology Collaboration
- Improving industry safety, environmental responsibility and sustainability
- Goal of improving recyclability of current fleet



*Collaboration is key to success*

# AFRA Members Recycle Today!

... and seek more solutions for tomorrow



- More than 150 planes / yr

Current scrapping rate:

- 54% are 737 / MD80 / A320 size
- 12% are 757 / 767 / A330 size
- 15% are 747 / 777 / DC10 / A340 size

- More than 30,000 tons aircraft aluminum recycled / yr

- More than 1,800 tons aircraft specialty alloys recycled / yr

- More than 600 tons of parts returned safely to service / yr



AP photo

**Challenge: ~5M tons/yr glass/aramid interiors are still going to land fills**

## AFRA BMP history:

- 2006: Charter with 11 founding members from 3 countries
- 2007: Strategic alignment with Aviation Suppliers Assoc and AFRA signed and AFRA incorporation as a trade association
- 2009: Aircraft Disassembly Best Management Practice (BMP) ...  
1<sup>st</sup> AFRA Accreditations**
- 2012: Aircraft Recycling BMP (2<sup>nd</sup> best management practice and  
2<sup>nd</sup> accreditation program)**
  - Main focal points for BMPs are management processes designed to facilitate airworthiness and environmental compliance and safety
- 2013: The two BMPs are merged into one (April 22, 2013 – rev. 3.0)**

## AFRA BMP Notes:

- **23 companies AFRA accredited** (accredited companies found in Canada, Luxembourg, Netherlands, South Africa, UK, and the US)
- **Cathay Pacific and ANA each specified AFRA Accreditation as a valid measure of environmental competence for their fleet disassembly contracts**

- **ARTICLE I – OVERVIEW**
- **ARTICLE II –  
DEFINITIONS AND BMP  
SYSTEM REQUIREMENTS**
- **ARTICLE III - FACILITY  
(including infrastructure  
& management process)**
- **ARTICLE IV - TRAINING**
- **ARTICLE V –  
DOCUMENTATION &  
RECORDS**
- **ARTICLE VI – TOOLING**
- **ARTICLE VII – PARTS  
AND MATERIALS  
MANAGEMENT DURING  
PROCESSING**
- **ARTICLE VIII –  
ENVIRONMENTAL  
PROTECTION**
- **ARTICLE IX –  
ACCOUNTABILITY TO  
THE CUSTOMER**

*Develop & promote industry standards that increases the commercial value of new and end-of-revenue service aircraft*

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(including infrastructure  
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**PROTECTION**      **25**

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### ■ APPENDIX ONE: Best Practice Advisory Guidance

- Practice Guides and Minimum Standards

### ■ APPENDIX TWO: Disassembly Best Practice Auditing Guidance

- Audit Checklist

### ■ APPENDIX THREE: Recycling Best Practice Auditing Guidance

- Audit Checklist

### ■ APPENDIX FIVE: Best Practice Contracting Guidance for Disassembly Facilities

- Contract Element Checklist

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# Why Merge the Two AFRA BMPs?



## Merger Benefits:

- Highlights the relationship between the two BMPs
- Encourages accredited companies to become familiar with the other standard
- For companies implementing both disassembly and recycling, the systems integration is more obvious

***Steady Growth and Accomplishment***

# Be part of the solution



**Industry Leaders**  
**Making History**  
*Join us*  
**As we define the future**

[www.AFRAassociation.org](http://www.AFRAassociation.org)

## **AFRA Accredited Companies**

AELS (Aircraft End of Life Solutions (Netherlands))  
AerSale (US)  
Air Salvage International (UK)  
Aircraft Demolition (US)  
Ascent Aviation Services (US)  
Bombardier (US / Canada)  
Bonus Tech (US)  
eCube Solutions (UK)  
ELG Metals (US)  
Evergreen Trade (US)  
GECAS (US)  
Huron Valley Fritz West (US)

JMV Aviation (Luxemburg)  
Magellan Group (US + Ireland)  
MD Turbines (US)  
Orange Aero (UK)  
Pacific Aerospace Resources & Technologies (US)  
Robert Gibbs Co (UK)  
Southern California Aviation (US)  
Stewart Industries (US)  
Universal Recycling (S. Africa)  
Valliere Aviation Group (Fr)  
VAS Aero Services (US)