

TRANSPORTATION RESEARCH BOARD

Plan for Disaster: Is Your Airport Prepared For An Airfield Accident?


**Thursday, August 8, 2019
2:00-3:30 PM ET**

Purpose

To discuss ACRP [Web-Only Document 31](#) and [Legal Research Digest 33](#).

Learning Objectives

At the end of this webinar, you will be able to:

- Describe the capabilities of the Aircraft Accident Management and Guidance Tool and how to access it
 - Discuss the emergency management capabilities of some of the key airport stakeholders that reside outside of the airport boundaries
 - Identify what the duties and standards of care are for airfield accident cases
 - Identify the typical elements of negligence action cases and what preemption is and how courts apply it
- 

ACRP Web-Only Document 31

Improving Stakeholder Engagement in Aircraft Accident Planning and the Aircraft Accident Management and Guidance (AAMG) Tool

Kenneth P. Neubauer
Futron Aviation Corporation

Kenneth P. Neubauer

Principal Investigator

- ✈ Technical Director – Aerospace Safety
 - Airport SMS Development
 - Airport Research
- ✈ Former US Navy Fighter Pilot
- ✈ Past Director – Naval School of Aviation Safety
- ✈ Past Director – Aviation Safety Programs, Naval Safety Center
- ✈ Principal Investigator
 - ACRP Project 11-02/Task 36
 - ACRP Project 06-08



ACRP Web-Only Document 31 Oversight Panel

Gary Mascaro – Scottsdale Airport, City of Scottsdale, AZ

Heidi Benaman – Faith Group

Scott Kimerer – Chief of Police City of Burien, WA (retired)

Carlos Lopez – Skywest Airlines

Geoff Nielsen – City of Phoenix (AZ) Fire Department

Dan Sprinkle – Denver International Airport

Marc Tonnacliff – FAA

ACRP Web-Only Document 31 : *Improving Stakeholder Engagement in Aircraft Accident Planning*

Key Project Objectives and Products

- ✈ Research and create guidance for airports in identifying and engaging aircraft accident response stakeholders
 - ✈ Develop educational and guidance materials airports can use
-
- ✈ Developed the Aircraft Accident Management and Guidance (AAMG) Tool
 - Downloadable from the TRB Website
 - Customizable by the airport or stakeholder user
 - ✈ Researched where aircraft accidents occur in relation to airports
 - ✈ Made available in January 2017

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Research Team

- ✈ Ken Neubauer – Futron Aviation
 - Principal Investigator
- ✈ Dave Fleet – Faith Group (Futron Aviation)
 - Airport Safety SME
- ✈ Shawn Scharf – Futron Aviation
 - Emergency Response SME
- ✈ Jeff Spenser – LCE
 - Education and Training Development SME

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Process for AAMG Tool Development

Phased Project Approach

- ✈ Phase 1 – White Paper Development
 - Where do aircraft accidents occur?
 - Who are the stakeholders in response planning?
- ✈ Phase 2 – Follow-On Research and Guidance Tool Development
- ✈ Phase 3 – Pilot Studies and Final Deliverables

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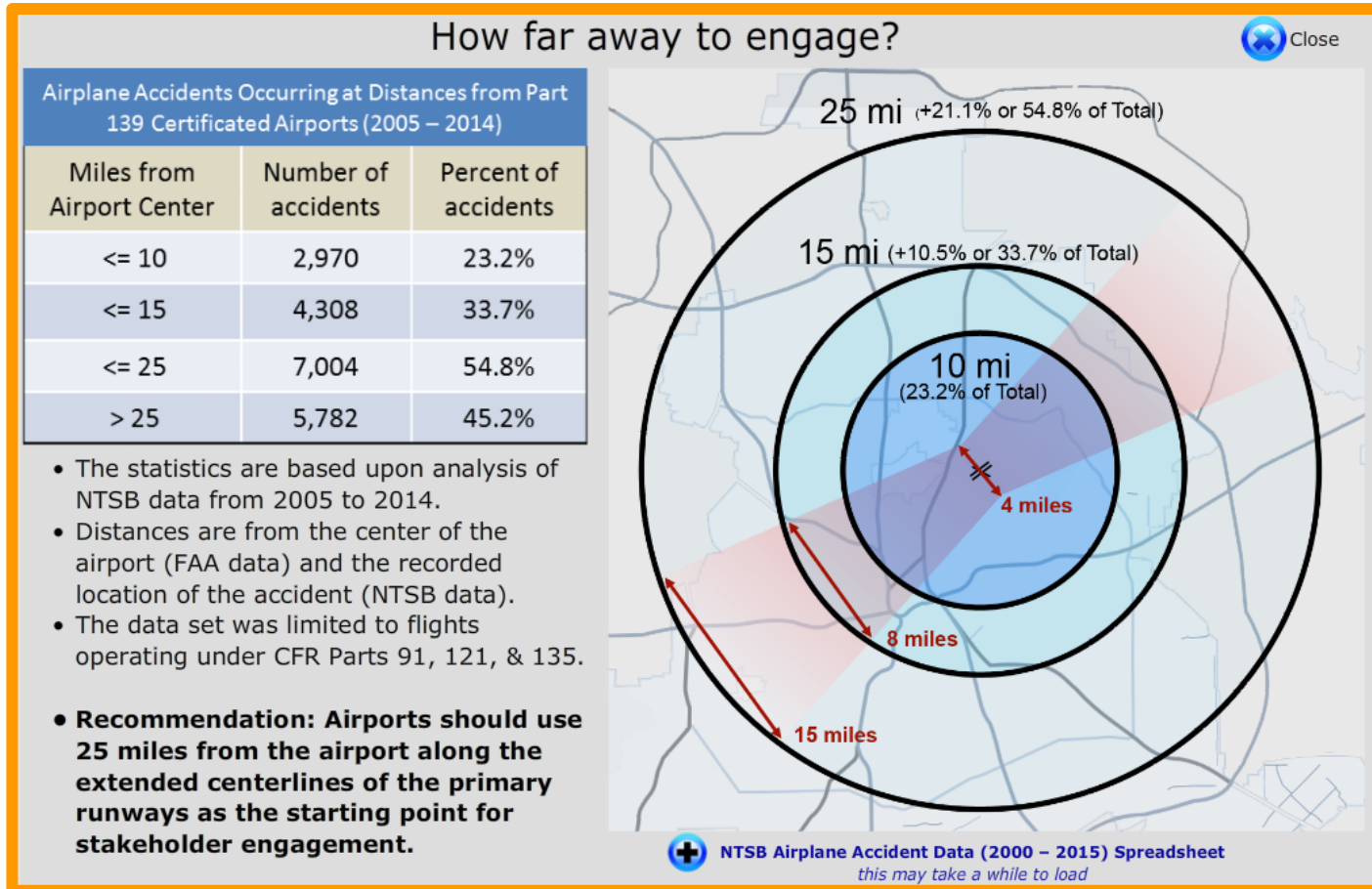
Process for AAMG Tool Development

Workshops for Research and Tool Testing

- ✈ Phase 1 Workshops – Stakeholder Research
 - Dallas – Fort Worth International Airport (DFW)
 - Norfolk International Airport (ORF)
 - Buffalo – Niagara International Airport (BUF)
- ✈ Phase 2 Workshops – Follow-On Research and Validation
 - Pittsburgh International Airport (PIT)
 - Boston Logan International Airport (BOS)
- ✈ Phase 3 Workshops – AAMG Tool Testing
 - Chennault International Airport (CWF)
 - LaCrosse Regional Airport (LSE)
 - Richmond Executive Airport (FCI)

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Where Aircraft Accidents Occur



ACRP Web-Only Document 31 AAMG Tool – Getting the Tool

Improving Stakeholder Engagem x +

Not secure | www.trb.org/Publications/Blurbs/175818.aspx

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Exploratory Analysis (IDEA)

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Conferences and Workshops Proceedings

TRR Journal

Transportation Research Circulars

Periodicals and Other Documents

TR News Magazine

Research Pays Off

State of the Art Reports

Standing Committee Newsletters

Millennium Papers

Miscellaneous

Publications > Blurbs > Improving Stakeholder Engagement in Aircraft Accident Response Planning

ACRP Web-Only Document 31: Improving Stakeholder Engagement in Aircraft Accident Response Planning

VIEW THIS PDF

Improving Stakeholder Engagement in Aircraft Accident Response Planning

TRB's Airport Cooperative Research Program (ACRP) Web-Only Document 31: Improving Stakeholder Engagement in Aircraft Accident Response Planning provides guidance to assist airport personnel who seek to engage with accident response stakeholders beyond the boundaries of the airport and outside of those typically engaged for mutual aid agreements in support of the airport.

A customizable [Aircraft Accident Management and Guidance \(AAMG\) Tool](#) accompanies the report.

Disclaimer: This spreadsheet is offered as is, without warranty or promise of support of any kind either expressed or implied. Under no circumstance will the National Academy of Sciences, Engineering, and Medicine or the Transportation Research Board (collectively) be liable for any loss or damage caused by the installation or operation of this product. TRB makes no representation or warranty of any kind, expressed or implied, in fact or in law, including without limitation, the warranty of merchantability or the warranty of fitness for a particular purpose, and shall not be liable for any consequential or special damages.

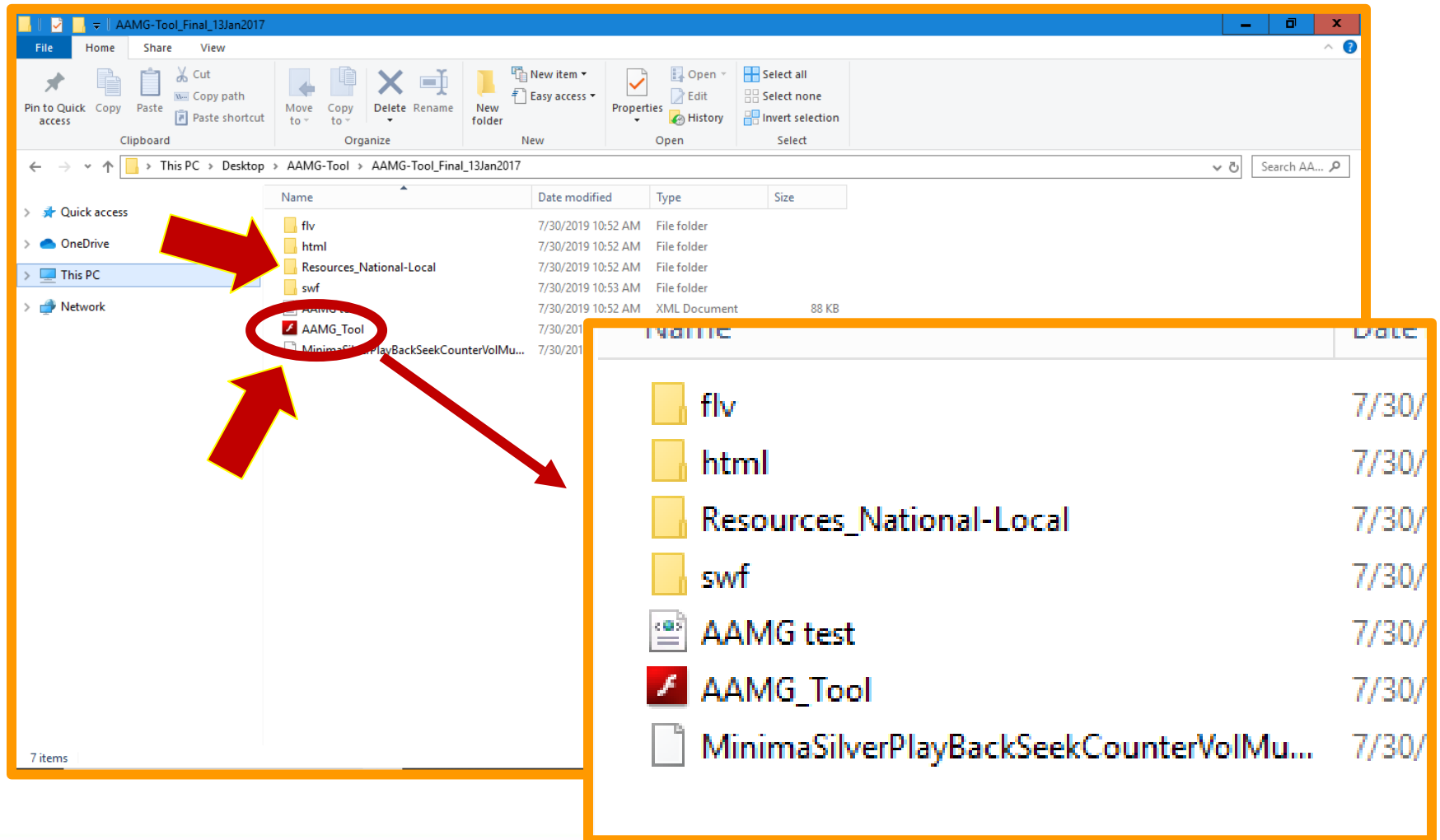
Project: [Project Information](#)
DOI: [10.17226/24758](#)
Project Number: 10-22

E-Newsletter Type: [Recently Released TRB Publications](#)
TRB Publication Type: [ACRP Web-Only Document](#)

This Summary Last Modified On: 1/4/2018

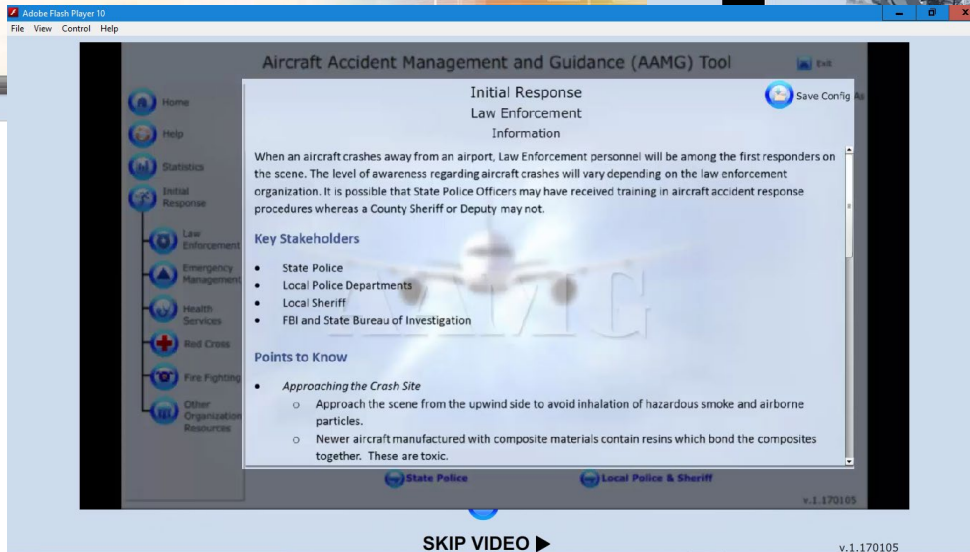
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AAMG Tool – Getting the Tool



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AAMG Tool – Introductory Video



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AAMG Tool – Using the Tool

Adobe Flash Player 10

View Control Help

Aircraft Accident Management and Guidance (AAMG) Tool

Exit

- Help
- Play Intro
- Purpose
- Statistics
- Lessons Learned

Load Config Save Config As Export POCs

- Initial Response**
 - Law Enforcement
 - Emergency Management
 - Health Services
 - Red Cross
 - Fire Fighting
 - Other Organization Resources
- Investigation**
 - Law Enforcement
 - Emergency Management
 - Health Services
 - Red Cross
 - Fire Fighting
 - Airline
- Recovery**
 - Law Enforcement
 - Emergency Management
 - Health Services
 - Red Cross
 - Public Resources
 - Airline

General Information

v.1.170105

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AAMG Tool – Using the Tool

The image shows a screenshot of the Adobe Flash Player 10 interface for the Aircraft Accident Management and Guidance (AAMG) Tool. A red arrow points to the Help menu on the left side of the player. The help page is displayed in a browser window, titled "AAMG Tool Help".

Navigation

A short video introducing the AAMG tool plays upon the launch of the program. A simple scrub bar with playing time appears when the user places the cursor over the video, which will disappear when the user moves the cursor off the video. The user may bypass the video by selecting the "SKIP" button underneath the video. The user may elect not to view the video upon the next launch of the program via "Remove Video from Startup" check box (this may not function if cookies are disabled).

NOTE:

After the video is played, or the user has selected the "SKIP VIDEO" forward button, the program will automatically be displayed in full screen mode. To exit full screen, the user may press the "Esc" key on the keyboard. To resume full screen mode, press "Ctrl + F".

The "Home" Screen has four distinct areas as shown below:

1. Global buttons which include "Help", "Play Intro" (replay introduction video), "Purpose" (general purpose of the this tool), "Statistics" (airport accident data), and "Lessons Learned" (for linking web site and pdf data to the tool).
2. "Load Config" (loading a previously saved session), "Save Config As" (for saving current session), and "Export POCs" (exporting as spreadsheet data, points of contacts placed into the tool by the user).
3. Access into the content of any 21 subcategories found under "Initial Response", "Investigation", or "Recovery" categories.
4. Exit application (useful when in full screen mode).

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AAMG Tool – Using the Tool

Adobe Flash Player 10

File View Control Help

Aircraft Accident Management and Guidance (AAMG) Tool

Exit

- Help
- Play Intro
- Purpose
- Statistics
- Lessons Learned

Load Config Save Config As Export POCs

- Initial Response**
 - Law Enforcement
 - Emergency Management
 - Health Services
 - Red Cross
 - Fire Fighting
 - Other Organization Resources
- Investigation**
 - Law Enforcement
 - Emergency Management
 - Health Services
 - Red Cross
 - Fire Fighting
 - Airline
 - FAA
 - NTSB
- Recovery**
 - Law Enforcement
 - Emergency Management
 - Health Services
 - Red Cross
 - Public Resources
 - Airline
 - Local Business

v.1.170105

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AAMG Tool – Using the Tool

Aircraft Accident Management and Guidance (AAMG) Tool

How far away to engage?

Miles from Airport Center	Number of accidents	Percent of accidents
<= 10	2,970	23.2%
<= 15	4,308	33.7%
<= 25	7,004	54.8%
> 25	5,782	45.2%

- The statistics are based upon analysis of NTSB data from 2005 to 2014.
- Distances are from the center of the airport (FAA data) and the recorded location of the accident (NTSB data).
- The data set was limited to flights operating under CFR Parts 91, 121, & 135.
- Recommendation: Airports should use 25 miles from the airport along the extended centerlines of the primary runways as the starting point for stakeholder engagement.**

25 mi (+21.1% or 54.8% of Total)

15 mi (+10.5% or 33.7% of Total)

10 mi (23.2% of Total)

4 miles

8 miles

15 miles

NTSB Airplane Accident Data (2000 – 2015) Spreadsheet
this may take a while to load

v.1.170105

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AAMG Tool – Using the Tool

Adobe Flash Player 10

File View Control Help

Aircraft Accident Management and Guidance (AAMG) Tool

Exit

- Help
- Play Intro
- Purpose
- Statistics
- Lessons Learned

Load Config Save Config As Export POCs

- Initial Response**
 - Law Enforcement
 - Emergency Management
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 - Law Enforcement
 - Emergency Management
 - Health Services
 - Red Cross
 - Fire Fighting
 - Airline
 - FAA
 - NTSB
- Recovery**
 - Law Enforcement
 - Emergency Management
 - Health Services
 - Red Cross
 - Public Resources
 - Airline
 - Local Business

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AAMG Tool – Using the Tool

The image displays two overlapping windows of the Aircraft Accident Management and Guidance (AAMG) Tool, both running in Adobe Flash Player 10. The background window shows the main menu with options: Help, Play Intro, Purpose, Statistics, and Lessons Learned. A red arrow points to the 'Lessons Learned' icon. The foreground window, titled 'Lessons Learned', shows a list of documents with 'Edit' and 'Delete' buttons for each. A red arrow points to the 'Lessons Learned' icon in the foreground window's menu, and a red oval highlights the entry 'Lessons: Colgan Air Buffalo Crash - NTSB Accident Brief' in the list. The foreground window also features a '+ADD' button at the bottom right and a version number 'v.1.170105' at the bottom right corner.

Document Title	Actions
Plane Down in the City: Operation Crash and Surge	Edit Delete
Operation Crash & Surge: Lessons learned from a region-wide exercise	Edit Delete
Lessons: Colgan Air Buffalo Crash - NTSB Accident Brief	Edit Delete
Lessons.FEMA Operational Lessons in Disaster Response - 2015	Edit Delete
PA - Region 13 Task-Force: Org-Chart	Edit Delete
PA - Region 13 Task Force - Brochure	Edit Delete
	Edit Delete

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AAMG Tool – Using the Tool

The image displays the Aircraft Accident Management and Guidance (AAMG) Tool interface. The main window, titled "Aircraft Accident Management and Guidance (AAMG) Tool", features a sidebar with navigation icons for Help, Play Intro, Purpose, Statistics, and Lessons Learned. A red arrow points to the "Lessons Learned" icon. A secondary window, titled "Lessons Learned", is open, showing a list of lessons with "Edit" and "Delete" buttons. A red arrow points to the "Lessons Learned" icon in the sidebar, and a red circle highlights the "Lessons Learned" icon in the secondary window. A third window, titled "The anatomy of an accident: Colgan Air flight 3407", is overlaid on the bottom right, showing the NTSB logo and the title of the document.

Adobe Flash Player 10

File View Control Help

Aircraft Accident Management and Guidance (AAMG) Tool

Exit

Help

Play Intro

Purpose

Statistics

Lessons Learned

Adobe Flash Player 10

File View Control Help

Aircraft Accident Management and Guidance (AAMG) Tool

Exit

Lessons Learned

Close

Plane Down in the City: Operation Crash and Surge

Edit

Delete

Operation Crash & Surge: Lessons learned from a region-wide exercise

Edit

Lessons: Colgan Air E

Lessons: FEMA Oper

PA - Region 13 Task-

PA - Region 13 Task

Help

PowerPoint Presentation

File | C:/Users/kneubauer/Desktop/AAMTG/AAMG-Tool_Final_13Jan2017/Resources_National-Local/Lessons_Colgan-Air-Buffalo-NTSB-Accident-...

NTSB National Transportation Safety Board

**The anatomy of an accident:
Colgan Air flight 3407**

Robert L. Sumwalt
February 12, 2010

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AAMG Tool – Using the Tool

Adobe Flash Player 10
File View Control Help

Aircraft Accident Management and Guidance (AAMG) Tool

Exit

- Help
- Play Intro
- Purpose
- Statistics
- Lessons Learned

Load Config Save Config As Export POCs

Initial Response

- Law Enforcement
- Emergency Management
- Health Services**
- Red Cross
- Fire Fighting
- Other Organization Resources

Investigation

- Law Enforcement
- Emergency Management
- Health Services
- Red Cross
- Fire Fighting
- Airline

Recovery

- Law Enforcement
- Emergency Management
- Health Services
- Red Cross
- Public Resources
- Airline

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v.1.170105

Response Phase Stakeholders

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AAMG Tool – Using the Tool

The screenshot displays the Aircraft Accident Management and Guidance (AAMG) Tool interface. The main window shows a navigation menu on the left with 'Initial Response' selected. A red arrow points to this menu item. A smaller inset window shows the 'Initial Response' content page, with a red arrow pointing to the 'Hospitals' link in the footer. The content page includes sections for 'Initial Response', 'Key Stakeholders', and 'Points to Know'.

Initial Response

Health Services
Information

Aircraft accidents will nearly always include injuries to crew, passengers, and potentially emergency responders. Area hospitals, as well as local and state public health care organizations, should be part of planning for aircraft accidents so they are best prepared on their roles and the expertise they can bring to the planning process.

Key Stakeholders

- Local Hospitals
- Coroner/Medical Examiner
- Emergency Medical Services
- Ambulance Services
- Search and Rescue
- Mass Transportation (Bus companies, school districts for school bus use)

Points to Know

- Hospital Notification
 - Informing hospitals that a crash has occurred as early as possible will allow the facility time to prepare for incoming patients.
 - Planning should include responsible organizations and communication methods for informing local

Hospitals | Coroner/Med Examiner | Emergency Medical Services | Ambulance Services

v.1.170105

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AAMG Tool – Using the Tool

Adobe Flash Player 10

File View Control Help

Aircraft Accident Management and Guidance (AAMG) Tool

Initial Response

Health Services - Hospitals

National Resources

Hospital Disaster Preparedness Checklist	Edit	Delete
Health Services - Hospitals	Edit	Delete
National Resources	Edit	Delete

+ADD

National Resources Local Resources Points of Contact v.1.170105

Other Organization Resources

- Hospital Notification
 - Informing hospitals that a crash has occurred as early as possible will allow the facility time to prepare for incoming patients.
 - Planning should include responsible organizations and communication methods for informing local

Hospitals Coroner/Med Examiner Emergency Medical Services Ambulance Services v.1.170105

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AAMG Tool – Using the Tool

The image displays the AAMG Tool interface, which is a web-based application. On the left, there is a navigation menu with various categories: Home, Help, Statistics, Initial Response, Law Enforcement, Emergency Management, Health Services, Red Cross, Fire Fighting, and Other Organization Resources. A red arrow points to the 'Help' icon, and a red circle highlights the 'Hospital Disaster Preparedness' document icon in the main content area.

The main content area shows a browser window displaying the 'Hospital Disaster Preparedness Self-Assessment Tool'. The browser address bar shows the file path: `C:/Users/kneubauer/Desktop/AAMG/AAMG-Tool_Final_13Jan2017/Resources_National-Local/Health_Hospital-Disaster-Preparedness_Checklist.pr`. The tool's title is 'Hospital Disaster Preparedness Self-Assessment Tool', and it features the logo of the American College of Emergency Physicians (ACEP) with the tagline 'ADVANCING EMERGENCY CARE'. Below the title, there is a section titled 'Hospital Disaster Preparedness Self-Assessment Tool' with a brief description: 'This assessment tool was developed to assist hospitals in revising and updating existing disaster plans or in the development of new plans. The tool was originally used by a subject matter expert survey team to collect data for a Department of Homeland Security (DHS) grant so it is constructed in a survey format. The data was then used to develop a specialized instruction program for that facility that addressed any areas needing improvements. We feel this assessment tool can also be utilized in a self-assessment format by the institution in the review of'.

At the bottom of the interface, there are several resource links: National Resources, Local Resources, Points of Contact (v.1.170105), Other Organization Resources, Hospitals (circled in red), Coroner/Med Examiner, Emergency Medical Services, and Ambulance Services (v.1.170105). A red arrow points to the 'Hospitals' link, and a red circle highlights it.

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AAMG Tool – Using the Tool

Adobe Flash Player 10
File View Control Help

Aircraft Accident Management and Guidance (AAMG) Tool

Exit

- Help
- Play Intro
- Purpose
- Statistics
- Lessons Learned

Load Config Save Config As Export POCs

- Initial Response**
 - Law Enforcement
 - Emergency Management
 - Health Services
 - Red Cross
 - Fire Fighting
 - Other Organization Resources
- Investigation**
 - Law Enforcement
 - Emergency Management
 - Health Services
 - Red Cross
 - Fire Fighting
 - Airline
- Recovery**
 - Law Enforcement
 - Emergency Management
 - Health Services
 - Red Cross
 - Public Resources
 - Airline

v.1.170105

Adding Resources for Reference

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AAMG Tool – Using the Tool

Adobe Flash Player 10

File View Control Help

Aircraft Accident Management and Guidance (AAMG) Tool

Exit

Help

Play Intro

Purpose

Load Config

Save Config As

Export POCs

Adobe Flash Player 10

File View Control Help

Aircraft Accident Management and Guidance (AAMG) Tool

Exit

Save Config As

Recovery

Law Enforcement

Emergency Management

Health Services

Red Cross

Public Resources

Airline

Local Business

Home

Help

Statistics

Recovery

Law Enforcement

Emergency Management

Health Services

Red Cross

Public Resources

Airline

Local Business

Recovery

Red Cross

Information

Once the investigation of the accident is complete, the Red Cross can continue to serve those involved in the Recovery Phase and assist members of the community and the families of those involved in the disaster.

Key Stakeholders

- Clergy
- Volunteer Organizations

Points to Know

- Involvement with the Crash Victims and Families.*
 - For crashes involving a high number of fatalities, family members who lost loved ones in the crash are likely to want to visit the site and perhaps conduct a memorial service at the crash site. The Red Cross is prepared to assist in these events.
- Lean on the Red Cross when organizing crash site visits for the families of victims.*
 - This step in accident response is vitally important for families but often overlooked in response planning. The Red Cross can take the lead for this essential step in the grieving process or effected families.
- Memorial service planning and conducting the Red Cross.*

Response Services

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AAMG Tool – Using the Tool

The screenshot displays the Aircraft Accident Management and Guidance (AAMG) Tool interface within an Adobe Flash Player 10 window. The interface is organized into several sections:

- Navigation Menu (Left):** A vertical list of icons and labels: Home, Help, Statistics, Recovery, Law Enforcement, Emergency Management, Health Services, Red Cross, Public Resources, Airline, and Local Business.
- Main Content Area:**
 - Header: "Aircraft Accident Management and Guidance (AAMG) Tool"
 - Section: "Recovery"
 - Sub-section: "Red Cross - Response Services National Resources"
 - Buttons: "Exit" and "Save Config As" in the top right.
 - Resource List: Three rows of resource cards, each with a document icon and "Edit Delete" buttons. A red circle highlights the "Delete" button in the first row, with a red arrow pointing to it.
 - Footer: "National Resources", "Local Resources", and "Points of Contact v.1.170105".
- Bottom Navigation Bar:** A horizontal bar with icons for "Clergy", "Response Services", and "Local Business". A red circle highlights the "Response Services" icon, with a red arrow pointing to it.

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AAMG Tool – Using the Tool

The screenshot displays the Aircraft Accident Management and Guidance (AAMG) Tool interface within an Adobe Flash Player 10 window. The main title is "Aircraft Accident Management and Guidance (AAMG) Tool". The current view is "Recovery" under "Red Cross - Response Services" and "National Resources".

On the left is a navigation menu with icons for: Home, Help, Statistics, Recovery (selected), Law Enforcement, Emergency Management, Health Services, Red Cross (highlighted with a yellow box), Public Resources, Airline, and Local Business.

The main content area shows a table of resources. The first row is highlighted in grey. A modal form titled "Editing Row 1" is open over the second row. The form contains the following fields and buttons:

- Form Title: Editing Row 1
- Form Field: TITLE/DESCRIPTION: (with an empty text input box)
- Form Field: PDF URL: (with an empty text input box)
- Form Button: BROWSE (circled in red with a red arrow pointing to it)
- Form Button: Save & Close
- Form Button: Cancel

On the right side of the table, there are "Edit" and "Delete" buttons for each row. At the bottom right, there is a "+ADD" button. At the bottom of the interface, there are icons for "National Resources", "Local Resources", and "Points of Contact". The version number "v.1.170105" is displayed in the bottom right corner.

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AAMG Tool – Using the Tool

The screenshot shows the Adobe Flash Player 10 interface for the Aircraft Accident Management and Guidance (AAMG) Tool. The main window title is "Aircraft Accident Management and Guidance (AAMG) Tool" and the subtitle is "Recovery Red Cross - Response Services National Resources". The interface includes a navigation menu on the left with "Home", "Help", and "Statistics" buttons. On the right, there are "Exit" and "Save Config As" buttons. A "BROWSE" button is highlighted with a red circle and a red arrow pointing to it. A file selection dialog box titled "Select file to upload by localhost" is overlaid on the main window. The dialog box shows the "Look in:" field set to "AAMG-Tool_Final_13Jan2017". The file list is as follows:

Name	modified	Type	Size
html	7/24/2019 3:18 PM	File folder	
Resources_National-Local	7/24/2019 3:18 PM	File folder	
swf	7/24/2019 3:19 PM	File folder	

The "Resources_National-Local" folder is selected and circled in red. A red arrow points to the "BROWSE" button in the dialog box. Another red arrow points to the "BROWSE" button in the main application window. The dialog box also shows "File name:" and "Files of type:" fields, with "Browse to PDF file" selected in the latter. The main application window has a "Cancel" button highlighted in yellow. The bottom right corner of the main window shows "Local Resources" and "Points of Contact v.1.170105".

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AAMG Tool – Using the Tool

The screenshot shows the Aircraft Accident Management and Guidance (AAMG) Tool interface. The main window title is "Aircraft Accident Management and Guidance (AAMG) Tool" and it is running in Adobe Flash Player 10. The interface includes a navigation menu on the left with "Home", "Help", and "Statistics" buttons. The main content area displays "Recovery" and "Red Cross - Response Services National Resources". A "Select file to upload by localhost" dialog box is open, showing a list of files in the "Resources_National-Local" folder. The file "RedCross_Victim-Support_Mental-Health" is selected. A red circle highlights the "BROWSE" button in the dialog box, and a red arrow points to it. Another red arrow points to the selected file in the list. The dialog box also shows "Cancel" and "Open" buttons. The main window has "Exit" and "Save Config As" buttons in the top right corner. The bottom right corner of the main window shows "Local Resources" and "Points of Contact v.1.170105".

Adobe Flash Player 10
File View Control Help

Aircraft Accident Management and Guidance (AAMG) Tool

Exit

Home
Help
Statistics

Recovery
Red Cross - Response Services
National Resources

Save Config As

Edit Delete
Edit Delete
Edit Delete

Select file to upload by localhost

Look in: Resources_National-Local

Name	Date modified	Type	Size
Public_Mass-Shelter-Strategy_MA	7/24/2019 3:18 PM	Adobe Acrobat Do...	
RedCross_Critical-Incident-Stress-Debriefing	7/24/2019 3:18 PM	Adobe Acrobat Do...	
RedCross_Critical-Incident-Stress-Mngt_Rol...	7/24/2019 3:18 PM	Adobe Acrobat Do...	
RedCross_Disaster-Mental-Health-Handboo...	7/24/2019 3:18 PM	Adobe Acrobat Do...	
RedCross_Federal-Responsibilities-in-Aviati...	7/24/2019 3:18 PM	Adobe Acrobat Do...	
RedCross_First-Responders-Trauma-Toolkit	7/24/2019 3:18 PM	Adobe Acrobat Do...	
RedCross_Helping-Children-Cope-with-Disa...	7/24/2019 3:18 PM	Adobe Acrobat Do...	
RedCross_Managing-Spontaneous-Volunteers	7/24/2019 3:18 PM	Adobe Acrobat Do...	
RedCross_Roles-in-Aviation-Disasters_Article	7/24/2019 3:18 PM	Adobe Acrobat Do...	
RedCross_Spiritual-Care-for-Responders	7/24/2019 3:18 PM	Adobe Acrobat Do...	
RedCross_Spiritual-Care-in-Disasters	7/24/2019 3:18 PM	Adobe Acrobat Do...	
RedCross_Spiritual-Services-in-Disasters_NY	7/24/2019 3:18 PM	Adobe Acrobat Do...	
RedCross_Strategies-for-Managing-Volunte...	7/24/2019 3:18 PM	Adobe Acrobat Do...	
RedCross_Victim-Support_Mental-Health	7/24/2019 3:18 PM	Adobe Acrobat Do...	
RedCross_Victim-Support-Checklist	7/24/2019 3:18 PM	Adobe Acrobat Do...	
RedCross_Volunteer-Recognition-Center_G...	7/24/2019 3:18 PM	Adobe Acrobat Do...	

File name: RedCross_Victim-Support_Mental-Health
Files of type: Browse to PDF file

Open
Cancel

Local Resources
Points of Contact v.1.170105

+ADD

ACRP Web-Only Document 31

AAMG Tool – Using the Tool

The screenshot displays the Adobe Flash Player 10 interface for the Aircraft Accident Management and Guidance (AAMG) Tool. The main window title is "Aircraft Accident Management and Guidance (AAMG) Tool". The interface is divided into several sections:

- Left Navigation Panel:** Contains icons and labels for Home, Help, Statistics, Recovery, Law Enforcement, Emergency Management, Health Services, Red Cross, Public Resources, Airline, and Local Business.
- Top Right:** Includes "Exit" and "Save Config As" buttons.
- Main Content Area:** Titled "Recovery", "Red Cross - Response Services", and "National Resources". It features a table of resources. The second row is highlighted as "Editing Row 1" and contains a form with the following fields:
 - TITLE/DESCRIPTION:** Victim Support: Mental Health
 - PDF URL:** Resources_National-Local/RedCross_Victim-Buttons for "BROWSE", "Save & Close", and "Cancel" are visible at the bottom of the form. A red circle highlights the form area, and a red arrow points to the "Save & Close" button.
- Right Side of Table:** Each row has "Edit" and "Delete" buttons.
- Bottom Right:** Includes a "+ADD" button and a version number "v.1.170105".
- Bottom Navigation:** Contains icons and labels for "National Resources", "Local Resources", and "Points of Contact".

ACRP Web-Only Document 31

AAMG Tool – Using the Tool

The screenshot displays the Aircraft Accident Management and Guidance (AAMG) Tool interface within an Adobe Flash Player 10 window. The window title is "Adobe Flash Player 10" and the menu bar includes "File", "View", "Control", and "Help". The main content area is titled "Aircraft Accident Management and Guidance (AAMG) Tool" and "Recovery". A sidebar on the left contains navigation icons for Home, Help, Statistics, Recovery, Law Enforcement, Emergency Management, Health Services, Red Cross, Public Resources, Airline, and Local Business. The main area shows a list of resources under "Recovery" with "National Resources" selected. The resources listed are "Victim Support: Mental Health", "Red Cross - Response Services", and "National Resources". Each resource has "Edit" and "Delete" buttons. A red arrow points to the "Victim Support: Mental Health" resource. A red circle highlights a dialog box that says "Resource data is not permanent until the AAMG Configuration is saved!" with an "OK" button. Another red arrow points to the dialog box. At the bottom right, there is a "+ADD" button and a version number "v.1.170105".

Adobe Flash Player 10
File View Control Help

Aircraft Accident Management and Guidance (AAMG) Tool

Exit

Save Config As

Recovery

Victim Support: Mental Health Edit Delete

Red Cross - Response Services Edit Delete

National Resources Edit Delete

Resource data is not permanent until the AAMG Configuration is saved!
OK

+ADD

National Resources Local Resources Points of Contact
v.1.170105

ACRP Web-Only Document 31

AAMG Tool – Using the Tool

The screenshot displays the Aircraft Accident Management and Guidance (AAMG) Tool interface within an Adobe Flash Player 10 window. The main title is "Aircraft Accident Management and Guidance (AAMG) Tool". The interface includes a navigation menu on the left with icons for Home, Help, Statistics, Recovery, Law Enforcement, Emergency Management, Health Services, Red Cross, Public Resources, Airline, and Local Business. The main content area shows a document titled "Victim Support: Mental Health" with a red arrow pointing to it. Other documents listed include "Recovery" and "National Resources". A "Save Config As" button is visible in the top right. An inset window shows a PDF document titled "VICTIM SUPPORT TASK 3—American Red Cross—Family Care and Mental Health". The PDF content includes an excerpt from the NTSB Federal Family Assistance Plan For Aviation Disasters and a list of five tasks:

VICTIM SUPPORT TASK 3—American Red Cross—Family Care and Mental Health

Excerpt from the NTSB Federal Family Assistance Plan For Aviation Disasters
<http://www.ntsb.gov/tda/Documents/federal-Family-Plan-Aviation-Disasters-rev-12-2008.pdf>

1. An American Red Cross Critical Response Team (CRT) is deployed from the American Red Cross National Headquarters Disaster Operations Center (DOC) and serves as the functional leadership of family care and crisis intervention during the aviation accident. The CRT will support the local American Red Cross response and manage any spontaneous volunteers.
2. Assign a representative to the JFSOC to coordinate and address American Red Cross–related issues and family requests for assistance.
3. Coordinate and manage the numerous organizations and personnel offering counseling, religious and other support services to the operation. Create a staff processing center, operated away from the FAC, to screen, monitor, and manage personnel (employee and volunteer staff). The staff processing center will also be responsible for developing an exclusive badge system for personnel, matching staff skills with organizational needs, assigning work schedules, briefing and debriefing of support staff, and planning for future activities.
 - a. Qualified local resources should be integrated with American Red Cross personnel for crisis and grief counseling, food services, administrative assistance, and other support services to family members and support organizations.
 - b. Crisis and grief counseling for family members who travel to the accident city should be coordinated with air carrier personnel.
4. Employ an accounting system to accurately record cost data in specific cost categories for reimbursement by the air carrier.
5. Assess the needs and available resources of other crisis support agencies, coordinate with them to

ACRP Web-Only Document 31

Process for AAMG Tool Development

Adobe Flash Player 10
File View Control Help

Aircraft Accident Management and Guidance (AAMG) Tool

Exit

- Help
- Play Intro
- Purpose
- Statistics
- Lessons Learned

Load Config Save Config As Export POCs

- Initial Response**
 - Law Enforcement
 - Emergency Management
 - Health Services
 - Red Cross
 - Fire Fighting
 - Other Organization Resources
- Investigation**
 - Law Enforcement
 - Emergency Management
 - Health Services
 - Red Cross
 - Fire Fighting
 - Airline
- Recovery**
 - Law Enforcement
 - Emergency Management
 - Health Services
 - Red Cross
 - Public Resources
 - Airline
 - Local Business

Adding Points of Contact

v.1.170105

ACRP Web-Only Document 31

Process for AAMG Tool Development

The screenshot displays the Aircraft Accident Management and Guidance (AAMG) Tool interface. The main window title is "Aircraft Accident Management and Guidance (AAMG) Tool". The interface includes a navigation menu on the left with the following items: Help, Play Intro, Purpose, Statistics, Initial Response, Law Enforcement, Emergency Management, Health Services, Red Cross, Fire Fighting, and Other Organization Resources. The main content area is titled "Initial Response" and contains the following text:

Initial Response
Law Enforcement
Information

When an aircraft crashes away from an airport, Law Enforcement personnel will be among the first responders on the scene. The level of awareness regarding aircraft crashes will vary depending on the law enforcement organization. It is possible that State Police Officers may have received training in aircraft accident response procedures whereas a County Sheriff or Deputy may not.

Key Stakeholders

- State Police
- Local Police Departments
- Local Sheriff
- FBI and State Bureau of Investigation

Points to Know

- *Approaching the Crash Site*
 - Approach the scene from the upwind side to avoid inhalation of hazardous smoke and airborne particles.
 - Newer aircraft manufactured with composite materials contain resins which bond the composites together. These are toxic.

The footer of the interface includes the following links: State Police and Local Police & Sheriff. The version number v.1.170105 is displayed in the bottom right corner.

ACRP Web-Only Document 31

Process for AAMG Tool Development

Adobe Flash Player 10

File View Control Help

Aircraft Accident Management and Guidance (AAMG) Tool

Initial Response

Law Enforcement - State Police
National Resources

- Home
- Help
- Statistics
- Initial Response
- Law Enforcement
- Emergency Management
- Health Services
- Red Cross
- Fire Fighting
- Other Organization Resources

Patrol Officer Roles in Aircraft Accidents

VA State Police: Plane Crash Investigation

Points of Contact

Exit

Save Config As

Edit Delete

Edit Delete

Edit Delete

+ADD

National Resources

Local Resources

Points of Contact

v.1.170105

State Police

Local Police & Sheriff

v.1.170105

ACRP Web-Only Document 31

Process for AAMG Tool Development

Adobe Flash Player 10

File View Control Help

Aircraft Accident Management and Guidance (AAMG) Tool

Initial Response
Law Enforcement - State Police
Points of Contact

Organization
Website
POC Name
POC email
Phone#(s)
Mailing Address
Notes
Last Saved:

Home
Help
Statistics
Initial Response
Law Enforcement
Emergency Management
Health Services
Red Cross
Fire Fighting
Other Organization Resources

National Resources Local Resources Points of Contact
v.1.170105

+ADD
-DEL

Organization Resources
Newer aircraft manufactured with composite materials contain resins which bond the composites together. These are toxic.

State Police Local Police & Sheriff
v.1.170105

ACRP Web-Only Document 31

AAMG Tool – Using the Tool

Adobe Flash Player 10
File View Control Help

Aircraft Accident Management and Guidance (AAMG) Tool

Exit

- Help
- Play Intro
- Purpose
- Statistics
- Lessons Learned

Initial Response

- Load Config
- Save Config As**
- Export POCs

Recovery

- Law Enforcement
- Emergency Management
- Health Services
- Red Cross
- Public Resources
- Airline

Fire Fighting

- Other Organization

Save Config As
Save your session/configuration as an XML file.

Save your session/
configuration as an
XML file.

Saving Your Configuration

v.1.170105

ACRP Web-Only Document 31

AAMG Tool – Using the Tool

Aircraft Accident Management and Guidance (AAMG) Tool

Help
Play Intro
Purpose
Statistics

Load Config
Save Config As
Export POCs

Recovery
Law Enforcement
Emergency Management
Health Services
Red Cross
Public Resources
Airline
Local

Select file to upload by localhost

Look in: AAMG-Tool_Final_13Jan2017

Name	Date modified	Type	Size
flv	7/24/2019 3:18 PM	File folder	
html	7/24/2019 3:18 PM	File folder	
Resources_National-Local	7/24/2019 3:18 PM	File folder	
swf	7/24/2019 3:19 PM	File folder	
AAMG-1-KN	7/24/2019 3:18 PM	XML Document	
	7/24/2019 3:29 PM	XML Document	

File name:

Files of type: *.xml

Open
Cancel

Renamed to
AAMG-1-KN

ACRP Web-Only Document 31

Process for AAMG Tool Development

Adobe Flash Player 10

File View Control Help

Aircraft Accident Management and Guidance (AAMG) Tool

Exit

- Help
- Play Intro
- Purpose
- Statistics
- Lessons Learned

Load Config Save Config As Export POCs

- Initial Response**
 - Law Enforcement
 - Emergency Management
 - Health Services
 - Red Cross
 - Fire Fighting
 - Other Organization Resources
- Investigation**
 - Law Enforcement
 - Emergency Management
 - Health Services
 - Red Cross
 - Fire Fighting
 - Airline
- Recovery**
 - Law Enforcement
 - Emergency Management
 - Health Services
 - Red Cross
 - Public Resources
 - Airline
 - Local Business

All Done . . . Exit

v.1.170105

ACRP Web-Only Document 31 AAMG Tool – Getting the Tool

Improving Stakeholder Engagem x +

Not secure | www.trb.org/Publications/Blurbs/175818.aspx

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Publications > Blurbs > Improving Stakeholder Engagement in Aircraft Accident Response Planning

ACRP Web-Only Document 31: Improving Stakeholder Engagement in Aircraft Accident Response Planning

Improving Stakeholder Engagement in Aircraft Accident Response Planning

TRB's Airport Cooperative Research Program (ACRP) Web-Only Document 31: Improving Stakeholder Engagement in Aircraft Accident Response Planning extends the boundaries of the airport and outside of those typically engaged for mutual aid agreements. A customizable **Aircraft Accident Management and Guidance (AAMG) Tool** accompanies the report.

Disclaimer: This spreadsheet is offered as is, without warranty or promise of support of any kind either expressed or implied. The Transportation Research Board (collectively) is not liable for any loss or damage caused by the installation or operation of this product. The user assumes all responsibility for the use of this product for any purpose, and shall not be liable for any consequences.

Project: [Project Information](#)
DOI: [10.17226/24758](#)
Project Number: 10-22

E-Newsletter Type: [Recently Released TRB Publications](#)
TRB Publication Type: [ACRP Web-Only Document](#)

This Summary Last Modified On: 1/4/2018

**Search for:
ACRP Web Document 31
or
ACRP 10-22**

FOR ADDITIONAL INFORMATION

Improving Stakeholder Engagement in Aircraft Accident Response Planning

ACRP

Web-Only Document 31:

Improving Stakeholder Engagement in Aircraft Accident Response Planning

Futron Aviation Corporation
Norfolk, VA

Contractor's Final Report for ACRP Project 10-22
Submitted January 2017

ACKNOWLEDGMENT
This work was sponsored by the Federal Aviation Administration (FAA). It was conducted through the Airport Cooperative Research Program (ACRP), which is administered by the Transportation Research Board (TRB) of the National Academies of Sciences, Engineering, and Medicine.

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Adobe Flash Player 10

Aircraft Accident Management and Guidance (AAMG) Tool

File View Control Help

- Help
- Play Intro
- Purpose
- Statistics
- Lessons Learned
- Load Config
- Save Config As
- Export POCs

Initial Response

- Law Enforcement
- Emergency Management
- Health Services
- Red Cross
- Fire Fighting
- Other Organization Resources

Investigation

- Law Enforcement
- Emergency Management
- Health Services
- Red Cross
- Fire Fighting
- Airline
- FAA
- NTSB

Recovery

- Law Enforcement
- Emergency Management
- Health Services
- Red Cross
- Public Resources
- Airline
- Local Business

v.1.170105

Presenting information from:

LRD 33: Overview of Airport Duties and Standards of Care in Airfield Accident Cases

Jodi Howick, Howick Law, pllc
jhowick@howicklawfirm.com

Jodi Howick

Howick Law, PLLC

- ✈️ Airport law practitioner serving large and small airports, and previous airport in-house counsel
- ✈️ Past Chair, ACI-NA Legal Committee, past Steering Committee member, and current member
- ✈️ Author of five ACRP legal digest publications
- ✈️ Long-time Adjunct Professor of Aviation Law
- ✈️ Past service in different roles on the ABA Air and Space Forum

Things to keep in mind

- **Most past cases are informational.**
- **They may not predict future results: every case is different.**
- **They may help when planning for emergencies:**
 - Raise awareness
 - Point out research needs
 - Identify areas for proactive legal work

Basics: What is negligence?

Duty ↓ Standard of Care	Under the circumstances, the law required acting with sufficient care to avoid a foreseeable harm.
Breach	Failing to act with that degree of care.
Cause	The breach leads to harm.
Harm	Harm occurs.

Two Key Questions

- **Duty: Did a law impose responsibilities on the airport?**
- **Standard: What care was required under the circumstances?**

Duties and Standards of Care

Premises Liability:

- **Duty: Owner / possessor of land has legal responsibilities to care for people who are present.**
- **Duty: courts also consider:**
 - Federal / local laws and standards
 - Applicable precedent
 - Other legal obligations
- **Standards of Care: Methods to determine may differs.**

Duties and Standards of Care

Examples:

- **Ritchie, 356 P.3d 337 (premises liability duty to “maintain reasonably safe conditions for aircraft using the airport”).**
- **Ins. Co. of N. America, 574 F. Supp. 373 (after a bird collision, considering testimony and NOTAM (notice) requirements to determine duties and standards).**

Federal Mandates

If requirements have the “force and effect of law” they can preempt a court from considering conflicting duties and standards of care.

- Statutes and regulations may contain mandates.
- Some agency decisions are binding.
- Not: agency guidance materials.

Federal Mandates

Example:

- **Bethman, 265 Cal. Rptr. 539, (courts will not impose duties on airports to establish additional standards for navigational aids).**

Summing Up the Basics:

**Sources of Duties
(who is responsible)**

**Premises Liability /
Federal or State
Obligations**

**Sources of Standards
of Care (what the
responsible party
should do)**

**Reasonable care /
Consistent with
federal standards**

Sample Airfield Cases

General Principals*

*Future cases may differ

Can airports shift their duties to someone else?

Generally:

- Premises liability duties usually attach to the possessor of property.
- Duties assigned by law cannot be delegated.

Examples:

- Washburn, 720 F.3d 347 (airport lessees).
- Rogers, 602 P.2d 171 (airline agreement terms).

What about FAA approvals and inspections?

Generally:

- Inspections enforce and do not shift underlying duties.
- Actions that “increase the risk” may create duties.

Examples:

- Lexington, 2008 WL 2397708 (FAA actions in the airfield).

Do airport plans create negligence duties?

Generally:

- **Federal approval doesn't shift legal responsibilities.**
- **These may be evidence of a standard of care.**

Examples:

- **Hartman, 923 F. Supp. 2d 1287 (wildlife plan).**

What about injuries from criminal activity?

Generally:

- What did the circumstances make foreseeable?
- What are the limits of foreseeability?

Examples:

- **Moncur, 137 Cal. Rptr. 239 (bomb in locker).**
- **Fuentes, 82 P.3d 1175 (carjacking).**
- **9/11 cases.**

Other issues to consider

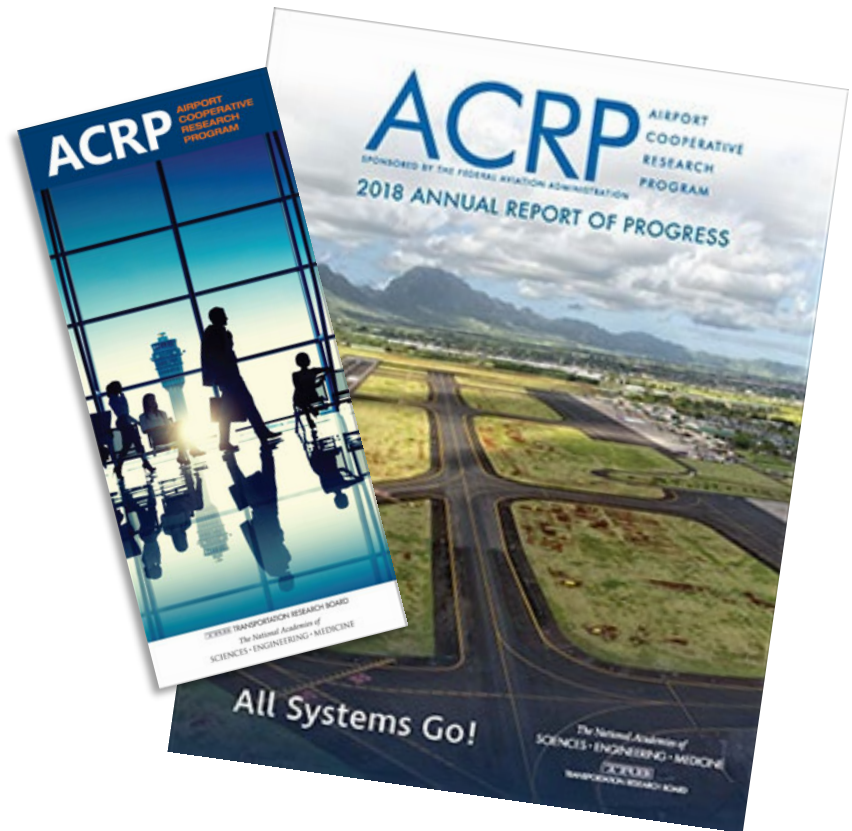
- **Contract obligations**
- **Insurance provisions**
- **Local defenses**
- **Local negligence action elements**
- **Airport policies generally**
- **Etc.**

Final Thoughts . . .

- **Potential liabilities pose a risk: time, money operations.**
- **Proactive legal work can reduce risks. Consider:**
 - Planning activities
 - Contracts / Insurance
 - Impact of local laws, like immunity
 - Risk assessment

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- ✈ Seeks out the latest issues facing the airport industry.
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- ✈ Publishes and disseminates research results through free publications and webinars.



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September 26

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October 8

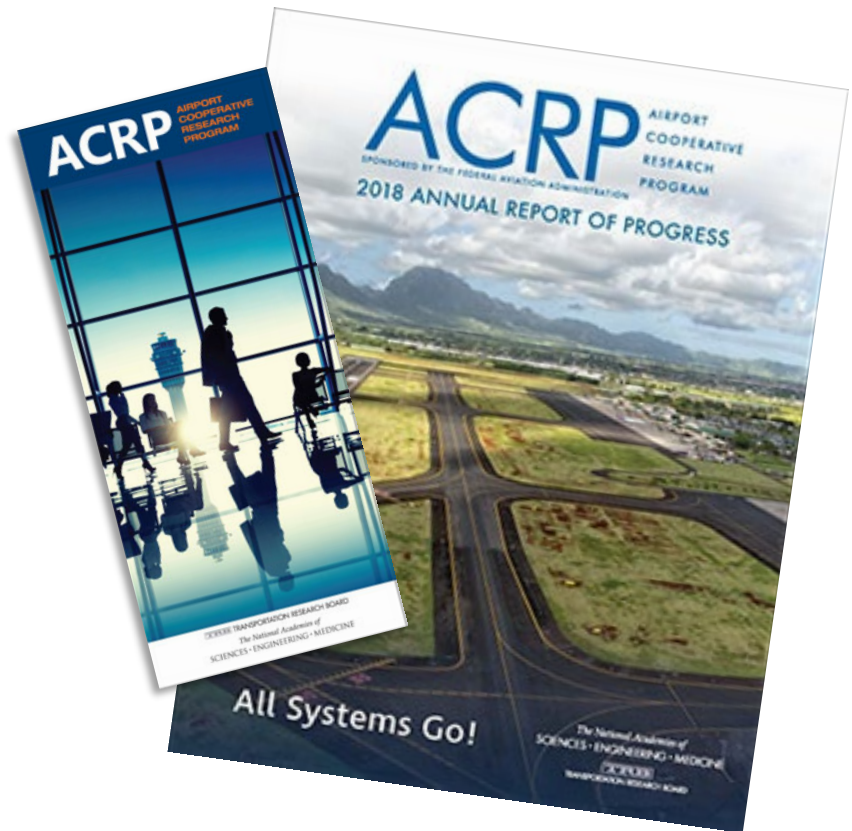
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Risk Management at Airports

Today's Speakers

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heidi@faithgroupllc.com
 - Kenneth Neubauer, *Futron Aviation Corporation*,
kneubauer@futronaviation.com
 - Jodi Howick, *Howick Law, PLLC*,
jhowick@howicklawfirm.com
- 

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