Memorandum

Date: May 29, 2009
To: Dr. Elba Garcia, Chair
and Members of the Public Safety Committee
Subject: Aircraft Rescue Fire Fighting Overview

The Public Safety Committee will be briefed on the Aircraft Rescue Fire Fighting Overview on Monday, June 1, 2009.

Ryan S. Evans
First Assistant City Manager

Attachment

c: Honorable Mayor and Members of the Dallas City Council
   Mary K. Suhm, City Manager
   Deborah Watkins, City Secretary
   Tom Perkins, City Attorney
   Craig Kinton, City Auditor
   Victor Lander, Administrative Municipal Judge
   Ramon F. Miguez, P.E., Assistant City Manager
   Jill A. Jordan, P.E., Assistant City Manager
   A.C. Gonzalez, Assistant City Manager
   Forest E. Turner, Interim Assistant City Manager
   Dave K. Cook, Chief Financial Officer
   Helena Stevens-Thompson, Assistant to the City Manager Mayor/City Council Office

"Dallas, the City that works: Diverse, Vibrant and Progressive"
Aircraft Rescue Fire Fighting

Trixie G. Lohrke
Battalion Chief

June 1, 2009
Purpose

Understanding the responsibilities, jurisdiction, and diverse governing entities of Dallas Fire-Rescue Aircraft Rescue Fire Fighting (ARFF).
ARFF Jurisdiction

► Love Field Airport (DAL):
  - 1,300 Acres
  - ARFF Index B

► Executive Airport (RBD):
  - 1,070 Acres
  - Non-Index Airport

► Vertiport (49T):
  - Elevated Pad 4 Acres
  - Dallas Convention Center
ARFF Staffing and Emergency Response

► Station 21:
  - Dedicated to Love Field
  - 33 ARFF personnel

► Station 42:
  - Structural, EMS, & Love Field
  - 15 ARFF personnel

► Station 49:
  - Structural, EMS, & Executive
  - Red 04 dedicated to Executive
  - 36 ARFF members
ARFF Incident Classifications

Alert 2
- Major aircraft in-flight emergency:
  - Faulty landing gear
  - Engine fire
  - Bomb threat

Alert 3
- Aircraft crash or fire involving aircraft not in flight
<table>
<thead>
<tr>
<th>Love Front Line Equipment</th>
<th>Executive Front Line Equipment</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Red 01</strong></td>
<td><strong>Red 04</strong></td>
</tr>
<tr>
<td>1999 Oshkosh TI 3000</td>
<td>1998 Oshkosh TI 3000</td>
</tr>
<tr>
<td>3000 gals. water</td>
<td>3000 gals. water</td>
</tr>
<tr>
<td>420 gals. 3% foam</td>
<td>420 gals. 3% foam</td>
</tr>
<tr>
<td>500 lbs. dry powder</td>
<td>500 lbs. dry chemical</td>
</tr>
<tr>
<td>Snozzle</td>
<td>600-1200 GPM roof turret</td>
</tr>
<tr>
<td></td>
<td>300 GPM bumper turret</td>
</tr>
</tbody>
</table>

| **Red 02**                |                          |
| 1999 Oshkosh TI 3000      |                          |
| 3000 gals. water          |                          |
| 420 gals. 3% foam         |                          |
| 500 lbs. Halotron         |                          |
| Snozzle                   |                          |

| **Red 03**                |                          |
| 2001 Oshkosh TI 3000      |                          |
| 3000 gals. water          |                          |
| 420 gals. 3% foam         |                          |
| 500 lbs. dry powder       |                          |
| Snozzle                   |                          |

| **Red 05 (Reserve equipment)** |                          |
| 1986 Oshkosh P-19           |                          |
| 1000 gals. water            |                          |
| 130 gal. 3% foam            |                          |
| 500 lbs. dry powder         |                          |
ARFF Equipment Maintenance

Martin Apparatus:
► Oshkosh Certified Mechanics
► Preventive maintenance inspection every 6 months
► Most repairs made on-site
► Complies with environmental procedures
► Red 03 Transmission 35K

DFR Maintenance:
► Regular preventive maintenance
► Some minor repairs
ARFF Training Requirements

United State Code 49 Code of Federal Regulations (CFR) Part 139:
► Dictates rules governing certification and operation of airports
► Love Field index “B”
► Mandatory full-scale disaster drill every 3 years (2010)

ARFF Training Curriculum:
► Defined by Federal Aviation Administration (FAA)
► Training subjects Advisory Circular No: 150/5210-17A
► Annual Hot Drill

Texas Commission on Fire Protection (TCFP):
► Structural Firefighting Certification
► Annual Continuing Education hours

Transportation Security Administration (TSA) & Love Field Security:
► Administer security access privilege program
► Secure Identification Display Area (SIDA) badge
► Movement Area (MA) Certification
Love Field Tri-Annual Disaster Drill
2007

Purpose:
- Critique operational and response procedures
- Not a pass or fail test

Participants:
- Multi-disciplines
- Multi-jurisdictional agencies
- Volunteers
- Actors 75 – 125 moulaged victims
2008 Annual FAA Inspection

Debriefing FAA Inspectors comments:

► “ARFF training outstanding”

► Unannounced ARFF emergency response timed drill “well under the 3 minutes required”

► FAA Inspector recommended a matrix type training record for the next inspection
Love Field Vault Fires

August 23, 2008:
- Cause – overheated inductor
- Cost estimate – $1 million
- Effect – runway lights

December 4, 2008:
- Cause – damage from previous fire
- Cost estimate – $25K
- Effect – runway lights
ARFF Presidential/ VIP P Coordination
Love Field Airport

- President of the United States
- Vice President of the United States
- United States Secret Service
- Dallas Police Department
- Love Field Operations
March 18, 2009:
- Beech Debonair fixed wing single-engine
- Landing gear collapsed on landing
- 2 Souls on Board (SOB)
- No injuries
- Damage to aircraft considered minor:
  - Landing gear
  - Propeller
  - Underside of aircraft
2008 ARFF Review

► Redesigned Love Field Emergency Grid Map

► Redesigned Love Field Emergency Gates Map

► Designed Executive Emergency Grid Map
Updated MOP Volume 8 Emergency for Love & Executive Airports

Updated or designed training curriculum required by FAA:
- Microsoft PowerPoint classes
- Total 50 new lesson plans on disk and printed

New A/V equipment for training at Stations 21 & 49

Two new ARFF computers at Station 49

EMS (CPR, AED, First Aid and Infectious Control) recertification for all ARFF personnel

Airport familiarization classes for off airport response unit
ARFF Pending Projects

- Interoperable Communications
- AED Program redesigned to Public Access Defibrillator (PAD) Program
- Love Field Modernization Project
ARFF Questions?