

NFS - National Aerial Firefighting
Academy Flight Simulation
McCellan, CA - January 29-31, 2013

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National Advanced Fire & Resource Institute
Managed By The U.S. Forest Service

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To: **NFS Participants**

Date: **December 8, 2012**

Subject: National Aerial Firefighting Academy Flight Simulation (NFS) Course

Welcome to the NAFA Flight Simulation Course!

The National Aerial Firefighting Academy (NAFA) Steering Committee is sending this letter to inform you of the following selections to attend the [NAFA Flight Simulation course \(NFS\)](#), being held **January 29 – 31, 2013** at the [Wildland Fire Training and Conference Center](#), **Sacramento, CA**.

If for any reason an individual is unable to attend, please provide us as much time as possible to obtain another pilot to fill in, this will allow us to maintain the pilot / co-pilot team.

The participants in the course will be divided into three groups that will rotate through three separate learning environments. One group will be involved in the aerial firefighter flight simulations while the second group will be conducting tactical decision making and Sandtable exercises, the third group will be participating in classroom activities covering fire weather and fire operations. Each day the exercises and information provided will be progressively more advanced in all three learning environments.

Headsets are included in the simulation boxes. We will provide a pad of paper and pencils, but kneeboards may be handy to have.

There is no tuition for this course, but travel and per diem will be a company expense.

I have reserved a block of rooms with the [Lions Gate Hotel](#). The Lions Gate is within easy walking distance of the training facility. Other hotels are available but require a 15 to 20 minute commute to the training facility. Please refer to the [Wildland Fire Training and Conference Center](#) website for area lodging and other logistical information.

If choose to stay at the Lions Gate call 866-258-565 to make reservations and give the **"NAFA"**. The group rate is **\$84.00**; the rate includes a hot breakfast buffet 6:30am – 9:30am and Happy Hour drink coupons—Monday-Friday. Please make your reservations before **January 7, 2013**.

If you have any questions, please feel free to contact me.

Donna Kreiensieck – NAFRI Course Coordinator
520/799-8745 – dkkreiensieck@fs.fed.us

NATIONAL AERIAL FIREFIGHTING ACADEMY

Flight Simulation Course

January 29 - 31, 2013

Sacramento, California

COURSE OBJECTIVES

To provide aerial firefighters an advanced training experience to the NAFA course, utilizing flight simulator hardware and software, sandtable exercises and classroom interaction. These simulations and problem solving exercises will enhance the aerial firefighters effectiveness and safety awareness by providing complex problem solving tasks while simulating a multi-aircraft fire airspace environment.

UNIT OBJECTIVES

UNIT I – Aerial Firefighter Flight Simulations

Participants will be introduced to, review, demonstrate comprehension and increase knowledge and proficiency in the following areas:

- Flight Simulator Operations
- Employment of Clear, Concise and Effective Communications
- Compliance with Fire Traffic Area (FTA) Procedures with / without Aerial Supervision
- Crew Resource Management (CRM) / Operations Risk Management (ORM) Factors that Influence the Decision-Making Process
- Task Prioritization Techniques and Procedures in Normal / Emergency Flight Operations

UNIT II – Tactical Decision Making / Sandtable Exercises (STEX)

Participants will be able to do the following:

- Familiarize students with the fundamentals of target description.
- Students will evaluate multiple competing missions in order to establish priorities.
- Evaluation of mission acceptance/decline/divert, based on operational and environmental conditions.

UNIT III – Advanced Operational Principle

Participants will be able to:

- Comprehend the principals of aerial decision making and key factors in that process.
- Recognize enhanced strategies and techniques to aid them in the application of fire retardant and class "A" foam.
- Understand the basics of digital/P25 radios and the operation of the Technisonic 136 radio.

Each of the lectures and/or simulations in this Unit are designed to hone existing skills and to teach new skills in the following:

- Low Level Mountain flying with heavy aircraft
- Retardant application
- Tactics and strategies
- Target description
- Fire size up

National Aerial Firefighting Academy – Flight Simulation

Course Schedule

National Advance Fire & Resource Institute

McClellan, CA – January 29-31, 2013

Classrooms			
Unit 1 – Aerial Firefighter Flight Simulation			
Unit II – Tactical Decision Making / Sand Table Exercises (STEX) & Crew Resource Management			
Unit III – Advanced Operational Principles			
Tuesday January 29, 2013			
All Groups			
0800-0850	Welcome and Introductions	Rm: N109 Dude	Donna Kreiensieck Greg House
0900-1130	<u>Group A</u>	<u>Group B</u>	<u>Group C</u>
	Unit I – Flight Simulation #1 <i>Ken Perry/Ron Barrett</i>	Unit III – Decision Making in the low level environment <i>Greg House</i>	Unit II – STEX #1 & CRM <i>Joel Lane / Mike Lynn</i>
1130-1230	Lunch		
1230-1500	<u>Group A</u>	<u>Group B</u>	<u>Group C</u>
	Unit II – STEX #1 & CRM <i>Joel Lane / Mike Lynn</i>	Unit I – Flight Simulation #1 <i>Ken Perry/Ron Barrett</i>	Unit III – Decision Making in the low level environment <i>Greg House</i>
1500-1730	<u>Group A</u>	<u>Group B</u>	<u>Group C</u>
	Unit III – Decision Making in the low level environment <i>Greg House</i>	Unit II – STEX #1 <i>Joel Lane / Mike Lynn</i>	Unit I – Flight Simulation #1 <i>Ken Perry/Ron Barrett</i>

National Aerial Firefighting Academy – Flight Simulation

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National Advance Fire & Resource Institute
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Wednesday January 30, 2013			
	<u>Group C</u>	<u>Group A</u>	<u>Group B</u>
0800-1030	Unit I – Flight Simulation #2 <i>Ken Perry/Ron Barrett</i>	Unit II – STEX #2 <i>Joel Lane / Mike Lynn</i>	Unit III – Advanced Fire Chemicals <i>Ann Suter / Shirley Zylstra</i>
1030-1300	Unit III – Advanced Fire Chemicals <i>Ann Suter / Shirley Zylstra</i>	Unit I – Flight Simulation #2 <i>Ken Perry/Ron Barrett</i>	Unit II – STEX #2 <i>Joel Lane / Mike Lynn</i>
1300-1400	Lunch		
	<u>Group C</u>	<u>Group A</u>	<u>Group B</u>
1400-1630	Unit II – STEX #2 & CRM <i>Joel Lane / Mike Lynn</i>	Unit III – Advanced Fire Chemicals <i>Ann Suter / Shirley Zylstra</i>	Unit I – Flight Simulation #2 <i>Ken Perry/Ron Barrett</i>
Thursday January 31, 2013			
	<u>Group B</u>	<u>Group C</u>	<u>Group A</u>
0800-1030	Unit I – Flight Simulation #3 <i>Ken Perry/Ron Barrett</i>	Unit II – STEX #3 <i>Joel Lane / Mike Lynn</i>	Unit III – Fire Weather & ‘Day in a Life’ P25 Radio - optional <i>Greg McDonald</i>
1030-1300	Unit III – P25 Radio <i>Greg McDonald / Barry Miller</i>	Unit I – Flight Simulation #3 <i>Ken Perry/Ron Barrett</i>	Unit II – STEX #3 <i>Joel Lane / Mike Lynn</i>
1300-1400	Lunch		
	<u>Group B</u>	<u>Group C</u>	<u>Group A</u>
1630	Unit II – STEX #3 <i>Joel Lane / Mike Lynn</i>	Unit III – Fire Weather & ‘Day in a Life’ P25 Radio - optional <i>Greg McDonald</i>	Unit I – Flight Simulation #3 <i>Ken Perry/Ron Barrett</i>
1630	Closeout – All Groups		

NAFA FLIGHT SIMULATION

McClellan, CA January 29-31, 2013

STEERING ROSTER

Ron Barrett

Forest Service
Regional Aviation Group

Mel Ceccanti

Erickson Air Crane

Glen Claypool

Bureau of Land Management
National Interagency Fire Center

Ryan Curl

Bureau of Land Management
National Interagency Fire Center

John Gallaher

Neptune Aviation Services Inc

Will Hollenbeck

Aero Flite Inc.

Greg House

Bureau of Land Management

Joel Lane

Forest Service
Porterville Air Tanker Base

David Stickler

Forest Service

Rusty Warbis

Bureau of Land Management

NAFRI Staff

Donna Kreiensick

Forest Service
NAFRI Course Coordinator

JoAnne Ware

Forest Service
NAFRI Administrative Assistant

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FACULTY ROSTER

Ron Barrett
Forest Service
Regional Aviation Group

Ken Craw
CAL Fire
Porterville Airtanker Base

John Gallaher
Neptune Aviation Services Inc

Greg House
Bureau of Land Management

Pete Koerber
Forest Service
6101 Airport Road

Mike Lynn
DOI Bureau of Land Management
Fox Airtanker Base

Barry Miller
Forest Service

Josh Pierotte
Forest Service
R5, Sierra NF, Bass Lake RD

Rusty Warbis
Bureau of Land Management

Shirley Zylstra
Forest Service
MTDC-Wildland Fire Chemical Systems

Mel Ceccanti
Erickson Air Crane

Tony Duprey
Chumash Tribal Fire Department

Will Hollenbeck
Aero Flite Inc.

Gus Johnson
Retired CAL Fire

Joel Lane
Forest Service
Porterville Air Tanker Base

Greg McDonald
Forest Service
Ogden-Hinkley Airport, Region 4

Ken Perry
Bureau of Land Management

Ann Suter
Forest Service
MTDC-Wildland Fire Chemical Systems

Todd White
Forest Service
Grass Valley Air Attack Base

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PARTICIPANT ROSTER

Scott Adams
Bode Aviation

Timothy Bercher
Forest Service

John H. Bode
Bode Aviation

Timothy Christy
Minden Air Corp

Brian Diehl
US Air Force

Randy Erwin
Erickson Air-Crane

Mike Fralicks
Forest Service

Derik N George
US Air Force

Dennis Hahn
Croman Corp

Chris Holm
Neptune

Mark Hutten
California National Guard

Keith Jones
Bode Aviation

George Knight
Erickson Air-Crane

Robert Leishman
Croman Corp

Gary Monday
Ventura County Fire Dept

James Pape
Minden Air Corp

Jason Robinson
Aero-Flite Inc

David Barnett
Erickson Air-Crane

Thomas A Billson
Bode Aviation

Fred Burris
Ventura County Fire Dept

Terry Cullen
Neptune

Adam Dimich
Aero-Flite

Robert Fairbanks
US Air Force

Kurt Franz
Columbia Helicopters

William Gordon
Minden Air Corp

Ryan Hales
Neptune

Timothy Eldon Holmes
Minden Air Corp.

Mark Johnson
Columbia Helicopters

Tommy Kershner
Neptune

Kyle K. Kramme
Bode Aviation

Scott Miller
Forest Service

Som Chai Odom
US Air Force

Daniel (Scotty) Pemberton
California National Guard

Bradley G Ross
US Air Force

Destry Scheel
Forest Service

Brian Sweetman
Columbia Helicopters

Andy Thomas
Erickson Air-Crane

James M Steward
US Air Force

Douglas Syzperski
Construction Helicopters

Luke Thompson
US Air Force