### Individual Factors, Stress and Stress Reduction in the Air Show Environment

Or how LIFE tends to get in the way of our flying

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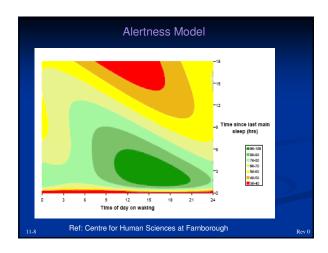
# Human Factors Team Members Planning Time Management Workload Management Communication & Decision-making Relations Situational Awareness Error Management Individual Factors, Stress & Stress Reduction

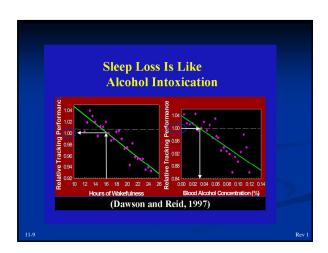
### Individual Factors and Stress Reduction Emotional Climate Business pressures and morale Fatigue Incapacitation Stress Managing Stress Self Evaluation

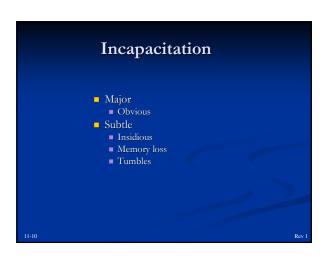
## Emotional Climate (What's happening around you) Perceptions of safety Poor Brief, hot ramp problems, CFR Clarity of job and task expectations Circle the jumpers, race jet truck, squirrel cage Participation and involvement Does your opinion count? (new people) Freedom of expression When you don't feel like you can speak out

### Business Pressures & Personal Morale A major stressor Financial Partnerships/Teams Workload Distribution Trouble booking shows and getting paid

Fatigue	
<ul><li>Physiological</li><li>Your need for sleep and rest (8 hours)</li></ul>	
■ Subjective ■ How sleepy you feel	
	Rev 0







# Sources of Stress Domestic Can be distracting Inescapable Environment Task specific Organizational

### Stress Physical Heat, noise, vibration, onset of fatigue Reactive Time pressure, unexpected situations Psychological Emotional upset, worrying about problems

Managing Stress			
Physical			
■ Get cool, stay hydrated, deal with it, etc.			
■ Reactive			
■ Establish priorities, Delegate tasks			
■ Build time, Follow your routine			
■ Psychological			
■ Acknowledge			
■ Communicate			
Rev 0			

### Evaluating yourself Self Assessment (checklist) ■ Honest ■ Blameless ■ Communicate (Talk to someone) ■ A Friend ■ A Peer **Personal Condition** Illness ■ Medication ■ Stress Alcohol ■ Fatigue ■ Environment Flying ■ How bad is it? ■ Back off ■ Have a colleague monitor your performance

### The Bottom Line You decide Only you know your condition ■ You are PIC Only you can decide **Individual Factors and Stress Reduction** ■ Emotional Climate ■ Business pressures and morale ■ Fatigue Incapacitation Stress ■ Managing Stress Self Evaluation Questions



### ICAS Aircrew Individual Risk Management/Assessment Worksheet (Jan 09)

### Show Location:

Date

- Enter a "one" (1) in the Tally column for each applicable item
- Add Tally scores to obtain final IRM score
- Compare final score to the IRM index to determine assessed risk for the day's scheduled performance

I SCHEDULING ASSESSMENT	SCHEDULING ASSESSMENT		
CREWMEMBER FACTORS	Tally		
"I'M SAFE			
Illness			
Medication			
Stress			
Alcohol			
Fatigue			
Environment			
Scheduling Total PRE-MISSION ASSESSMENT			
ENVIRONMENTAL FACTORS	Tally		
Cold Weather Ops (< 0 C)	lally		
Hot Weather Ops (>35 C)			
Crosswinds > 10 kts			
Ceilings < 3000 ft			
Visibility < 5 SM			
Moderate Turbulence Forecast			
Moderate Turbulence Forecast  Density Altitude			
Density Altitude			
Density Altitude Thunderstorms Forecast			
Density Altitude Thunderstorms Forecast Bird / AHAS Activity ≥ Moderate			
Density Altitude Thunderstorms Forecast Bird / AHAS Activity ≥ Moderate EXECUTION FACTORS			
Density Altitude Thunderstorms Forecast Bird / AHAS Activity ≥ Moderate			
Density Altitude  Thunderstorms Forecast  Bird / AHAS Activity ≥ Moderate  EXECUTION FACTORS  Scheduled number of performances per day			
Density Altitude  Thunderstorms Forecast  Bird / AHAS Activity ≥ Moderate  EXECUTION FACTORS  Scheduled number of performances per day  Night Show			
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Density Altitude Thunderstorms Forecast Bird / AHAS Activity ≥ Moderate  EXECUTION FACTORS Scheduled number of performances per day Night Show Aircraft/Vehicle Maintenance Issues			
Density Altitude  Thunderstorms Forecast  Bird / AHAS Activity ≥ Moderate  EXECUTION FACTORS  Scheduled number of performances per day  Night Show  Aircraft/Vehicle Maintenance Issues  Pre-Mission Total			
Density Altitude Thunderstorms Forecast Bird / AHAS Activity ≥ Moderate  EXECUTION FACTORS Scheduled number of performances per day Night Show Aircraft/Vehicle Maintenance Issues			

RISK ASSESSMENT WORKSHEET			
1. How Do You Feel?	> 90%	80-90%	< 80%
	0	2	4
2. Quality of Crew Rest	GOOD	FAIR	POOR
	0	4	8
3. Consecutive Airshows	≤ Three	Four	≥ Five
	0	2	4
4. Days Since Last Show	< 15	15-30	> 30
	0	2	4
5. Work Stress Level	Low	Mod	High
	0	2	4
6. Months Since Last "Practice" of Routine	No / >3	1-3	< 1
	4	2	0
7. Months Until Expecting Child	No	2-9	< 2
	0	2	4
8. Relationship Issues	No	Minor	Major
	0	4	8
9. Financial Issues	No	Minor	Major
	0	4	8
10. Additional Distractions	No	Minor	Major
	0	4	8

INDIVIDUAL RISK ASSESSMENT				
1		CREW INSTRUCTIONS		
2		<ul> <li>Use worksheet a personal risk</li> </ul>	bove to assess	
3		Record individual score in corresponding box to the left		
4		Compare individual scores to personal risk index below		
5		Record number of personal scores     > 10 under Execution Factors in		
6		the farleft matrix		
		PERSONAL RISK INDEX		
7		0 - 5	Low	
		6 - 10	Moderate	
8		11 - 15	High*	
3		16+	Extreme**	

9

10

Total

IRM INDEX			
0 - 5	Low		
6 - 10	Moderate		
11 - 15	High*	Total	
16+	Extreme**	i Otai	

### Stress Test

This is a list of stressful events in your life which have different number values to show the pressure that each adds to your life. Sit back, take a moment, and review your life over the past 1 to 2 years. Go through the following list. Check the box of those stressful events that have happened or are taking place in your life. When you are done add up the values of all that you have checked to see your Stress Score.

100 🗖	Death of a spouse	73 🗖	Divorce
36 □	Change to different line of work	37 🗖	Death of a close friend
65 n	Marital separation (or separation many major intimate relationship)	63 🗖	Jail term
63 🗖	Death of a close family member	53 🗀	Personal injury or illness
44 🗖 beh	Major change in health or navior of a family member	47 🗖	Being fired from work
40 🗖	Sexual difficulties	45 🗆	Marital reconciliation
39 <u></u> birt	Gain of new family member thru th, adoption, or remarriage	45 🗖	Retirement
39 🗖	Business readjustment	40 🗆	Pregnancy
38 🗖	Major change in finances	50 □	Marriage
35 <u></u> wit	Increase in number of arguments h spouse	23 🗖	Trouble with boss/superior
31 🗖	Mortgage or loan for major chase (i.e. home, etc.)	30 🗖	Foreclosure of mortgage or loan
29 🗖	Changes in responsibility at work	29 🗖	Son or daughter leaving home
28 🗖 Ach	Outstanding Personal nievement	26 nor	Spouse stops work outside of me
29 🗖	Trouble with in-laws	26 🗖	Going back to school
25 🗖 (rel	Change in living condition building, remodeling)	20 🗖	Change in residence
20 res	Change in work hours or ponsibilities	20 🗖	Change in school
24 🗖	Revision/change of personal pits	19 🗖	Change in recreational habits

Change in church/spiritual activities	18 Change in social activities
Purchase of major items (auto, computer, etc)	16 Change in sleeping habits
Change in number of family gettogethers	15 Change in eating habits
15 \( \sum_{\text{Vacation}} \)	12 Christmas
11 Minor violations of the law (e.g., traffic tickets, misdemeanors)	
Your overall St	tress Score is:

This scale shows the kind of life pressure that you are facing. Depending on your coping skills or the lack thereof, this scale can predict the likelihood that you will fall victim to a stress related illness. The illness could be mild frequent tension headaches, acid indigestion, and loss of sleep to very serious illness like ulcers, cancer, migraines and the like.

### **LIFE STRESS SCORES**

- 0-149 Low susceptibility to stress-related illness
- 150-299 Medium susceptibility to stress-related illness. Learn and practice relaxation and stress management skills and a healthy well life style.
- 300 and over High susceptibility to stress-related illness

  Daily practice of relaxation skills is very important for your wellness. Take care of it now before a serious illness erupts or an affliction becomes worse.