

**Joint Aircraft Survivability Program Review**  
**TTF**  
**Nellis AFB, NV**  
**18-20 September 2018**

Monday, 17 September 2018					
	Time		Title	Presenter	
<b>UNCLASSIFIED</b>	0:00 - 1:00	1:00	Registration		
	1:00 - 1:10	0:10	Welcome	Dennis Lindell, JASPO	
				<b>Design of Experiments Tutorial</b>	
	1:10 - 2:30	1:20	<i>Introduction to Design of Experiments</i>	Stephanie Lane, IDA	
	2:30 - 2:45	0:15	BREAK		
	2:45 - 4:05	1:20	<i>Introduction to Design of Experiments</i>	Stephanie Lane, IDA	
	4:05 - 4:10	0:05	<b>WRAP UP &amp; ADJOURN</b>		

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**Introduction to Design of Experiments**

In this half-day course, we discuss the techniques needed to generate statistically rigorous test designs. A well-designed test can yield greater insight into performance across the operational envelope, while using fewer resources. We will discuss how to select appropriate response variables and design factors, how to build a test design that meets your objectives, and how to analyze the results of your test. Common test designs, such as full factorial and optimal designs, will be covered, as well as core concepts such as power, sample size, and confidence.

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Tuesday, 18 September 2018			
Time		Title	Presenter
7:45 - 8:30	0:45	Registration	
8:30 - 9:00	0:30	Welcome	Dennis Lindell, JASPO
<b>Improve Aircraft Force Protection - Innovative Armor</b>			
9:00 - 9:10	0:10	<i>Innovative Armor Intro</i>	Dennis Lindell, JASPO
9:10 - 9:30	0:20	<b>V-15-04 Advanced Transparent Armor II (Boeing)</b>	Mark Wilenski, BOEING
9:30 - 9:50	0:20	<b>V-15-07 Transparent Armor for Extreme Environments</b>	Parimal Patel, ARL/SLAD
9:50 - 10:10	0:20	V-17-08 Hardwire AP Threat Protection	Marty Krammer, NAWCWD
10:10 - 10:25	0:15	BREAK	
<b>Improve Aircraft Force Protection - RPG Defeat</b>			
10:25 - 10:35	0:10	<i>RPG Defeat Intro</i>	Robert Lyons, JASPO
10:35 - 10:55	0:20	<b>S-16-05 Anti-RPG Warhead</b>	Marty Krammer, NAWCWD
10:55 - 11:10	0:15	V-17-07 Rotorcraft Vulnerability to RPG Debris	Marty Krammer, NAWCWD
<b>Improve Aircraft Force Protection - VA Accuracy</b>			
11:10 - 11:20	0:10	<i>Vulnerability Accuracy &amp; Confidence Intro</i>	Dennis Lindell, JASPO
11:20 - 11:35	0:15	M-16-01 JASP Model Support - COVART	Rodney Stewart, AFLCMC
11:35 - 11:55	0:20	<b>V-17-04 6-Degree of Freedom COVART</b>	Rodney Stewart, AFLCMC
11:55 - 12:10	0:15	V-18-02 Penetration and Vulnerability Confidence	Tim Staley, AFLCMC
12:10 - 13:10	1:00	<b>LUNCH</b>	
<b>Improve Aircraft Force Protection - Defeat Fire</b>			
13:10 - 13:20	0:10	<i>Defeat Fire Intro</i>	Dennis Lindell, JASPO
13:20 - 13:35	0:15	V-16-01 Enhanced Self-Sealing Fuel Containment	Mark Wilenski, BOEING
13:35 - 13:55	0:20	V-17-01 HRAM Spurt Model Development & Validation	Brian Barlow, 704th TG
13:55 - 14:10	0:15	V-17-02 Fragment Flash Characterization	Tim Staley, AFLCMC
14:10 - 14:30	0:20	<b>V-17-05 Transition of Intelligent Fire Suppression System</b>	Brian Barlow, 704th TG
14:30 - 14:45	0:15	V-18-01 API Functioning Characterization	Tim Staley, AFLCMC
14:45 - 15:00	0:15	BREAK	
<b>Improve Aircraft Force Protection - HEL Hardening</b>			
15:00 - 15:10	0:10	<i>HEL Intro</i>	Dennis Lindell, JASPO
15:10 - 15:30	0:20	<b>V-16-03 Thermo-Mechanical Failure of Composites</b>	Brian Barlow, 704th TG
15:30 - 15:45	0:15	V-17-03 HEL Hardening for Aircraft	Jared Petry, AFRL
<b>Significant Survivability Issues</b>			
15:45 - 15:55	0:10	<i>Significant Survivability Issues Intro</i>	Dennis Lindell, JASPO
15:55 - 16:10	0:15	V-16-02 Ballistic Resistant Adaptive Seat System	Tyrone Minton, TPG
16:10 - 16:25	0:15	M-16-07 Full Spectrum Crash Survivability Physics Based Modeling	Allen Shirley, CORVID
16:25 - 16:30	0:05	<b>WRAP UP &amp; ADJOURN</b>	

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	Time		Title	Presenter
U	7:45 - 8:30	0:45	Registration	
	8:30 - 9:00	0:30	Welcome	Dennis Lindell, JASPO
CLASSIFIED	<b>JLF-Air Projects</b>			
	9:00 - 9:10	0:10	<i>JLF Intro</i>	Dennis Lindell, JASPO
	9:10 - 9:30	0:20	<b>T-16-01 V-22 Wing Fire Protection System Effectiveness</b>	Marty Krammer, NAWCWD
	9:30 - 9:50	0:20	<b>T-14-06/T-16-02 Frag Grenade Characterization Test &amp; TMD</b>	Fred Marsh, ARL/SLAD
	9:50 - 10:10	0:20	<b>T-16-04 Yawed API Penetration Characterization and ProjPen Analysis</b>	Fred Marsh, ARL/SLAD
	10:10 - 10:25	0:15	BREAK	
	10:25 - 10:40	0:15	T-17-01 Cabin Auxilliary Tank Self Sealing Issue	Zach Atcheson, NAWCWD
	10:40 - 10:55	0:15	T-17-02 AH-64E Fire Barrier Verification	Fred Marsh, ARL/SLAD
	10:55 - 11:05	0:10	T-18-01 H-60 Helicopter Accumulator Vulnerability	Fred Marsh, ARL/SLAD
	11:05 - 11:15	0:10	T-18-02 Multi-Fragment Gun Development	Chuck Frankenberger, NAWCWD
	11:15 - 11:25	0:10	T-18-03 Rotorcraft Shaft Vulnerability, Static vs. Dynamic Test	Marty Krammer, NAWCWD
UNCLASSIFIED	<b>General Projects</b>			
	11:25 - 11:45	0:20	Aircraft Survivability Education Update	Chris Adams, NPS Andrew Lingenfelter, AFIT
	11:45 - 12:00	0:15	M-16-01 JASP Model Users Meeting (JMUM)	Dennis Lindell, JASPO
	12:00 - 13:00	1:00	<b>LUNCH</b>	
CLASSIFIED	<b>JCAT &amp; Operational View</b>			
	13:00 - 13:15	0:15	JCAT Introduction & Overview	CW5 Scott Brusuelas, ASDAT
	13:15 - 13:35	0:20	Combat-Related Injury Study: Black Hawk 2003-2014	<i>TBD</i>
	13:35 - 13:55	0:20	JCAT Threat Update & Assessment <sup>Δ</sup>	Mr. Jeff Whitmire, ASDAT
	13:55 - 14:25	0:30	<i>Operational Perspective Brief<sup>Δ</sup></i>	<i>TBD</i>
	14:25 - 14:40	0:15	BREAK	
	<b>Defeat Near-Peer Adversary Threats - IR</b>			
	14:40 - 14:50	0:10	<i>IR Threat Introduction<sup>Δ</sup></i>	Robert Lyons, JASPO
	14:50 - 15:10	0:20	<b>S-16-02 Two Color IR Missile ID<sup>Δ</sup></b>	Hugo Romero, NRL
15:10 - 15:30	0:20	S-17-02 Guided IRCM	Cole Hardman, NSWC-CD	
15:30 - 15:50	0:20	M-16-03 Countermeasure Effectiveness Analysis Tool	Johnny Hung, NSWC-CD	
15:50 - 16:10	0:20	S-18-01 Visible IR Jamming <sup>Δ</sup>	Michael Veracka, NRL	
U	16:10 - 16:25	0:15	<b>WRAP UP &amp; ADJOURN</b>	

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7:45 - 8:30	0:45	Registration	
8:30 - 9:00	0:30	Welcome	Dennis Lindell, JASPO
		<b>Defeat Near-Peer Adversary Threats - RF</b>	
9:00 - 9:10	0:10	<i>RF Threat Intro</i> <sup>Δ</sup>	Robert Lyons, JASPO
9:10 - 9:30	0:20	M-16-01 JASP Model Support - Brawler	Dale Johnson, AF/A9
9:30 - 9:50	0:20	M-16-01 JASP Model Support - ESAMS <sup>Δ</sup>	Ben Vroman, AFLCMC
9:50 - 10:05	0:15	BREAK	
10:05 - 10:35	0:30	<b>S-17-05 ESAMS Modernization Environment/ M-16-04 Prototype SAMs in ESAMS</b> <sup>Δ</sup>	Ben Vroman, AFLCMC
10:35 - 10:55	0:20	S-18-02 Vertical Lift Capability for ESAMS <sup>Δ</sup>	Mac Dinning, AATD KTR
10:55 - 11:15	0:20	S-17-01 Non-Detectable Radar EA (N*DREA) <sup>Δ</sup>	Stephen Sandy, NRL
11:15 - 11:35	0:20	S-17-03 Airborne FM Passive Coherent Location EA <sup>Δ</sup>	Thai Pham, NRL
11:35 - 12:55	1:20	<b>LUNCH</b>	
12:55 - 13:15	0:20	<b>S-16-04 Advanced RF Threat CM Development</b> <sup>Δ</sup>	Stephen Sandy, NRL
13:15 - 13:35	0:20	<b>S-14-01 Detect &amp; Mitigate DRFM</b> <sup>Δ</sup>	Stephen Sandy, NRL
13:35 - 14:05	0:30	S-17-04 Future Active RF Expendables <sup>Δ</sup>	Dr. Chris Walker, GTRI
14:05 - 14:25	0:20	BREAK	
		<b>PMSG Closed Session</b>	
14:25 - 15:25	1:00	JASP FY20 Program Build	Dennis Lindell, JASPO
15:25 - 16:10	0:45	Action Items & Wrap Up	Dennis Lindell, JASPO
<b>ADJOURN</b>			

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