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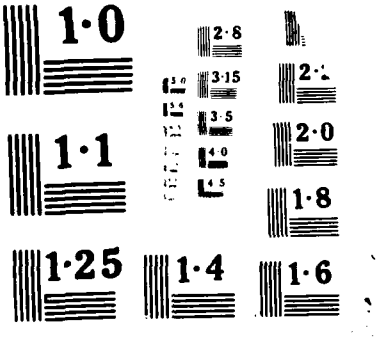
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PROCEEDINGS OF THE WORKSHOP ON THE ASSESSMENT OF CREW WORKLOAD MEASUREMENT METHODS, TECHNIQUES AND PROCEDURES

VOLUME II - Library References

Dr M. A. Biferno
DOUGLAS AIRCRAFT COMPANY
3855 LAKEWOOD BLVD
LONG BEACH, CALIFORNIA 90846

George Boucek, Jr
BOEING COMMERICIAL AIRPLANE COMPANY
P. O. BOX 3707
SEATTLE, WASHINGTON 98124-2207

JUNE 1987

FINAL REPORT FOR PERIOD 24-25 FEBRUARY 1987

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FLIGHT DYNAMICS LABORATORY
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This technical report has been reviewed and is approved for publication.

HAROLD G. BRITTEN-AUSTIN, Sqn Ldr, RAF
Electrical Engineer
Crew Systems Development Branch

RONALD I. MORISHIGE, Lt Col, USAF
Chief, Crew System Development Branch
Flight Dynamics Division

FOR THE COMMANDER

JAMES E. HUNTER
Assistant Chief
Flight Control Division

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EDITED BY:

Williams, K. N.	Douglas Aircraft Company Long Beach, California
Barbato, J. W.	California State University Long Beach, California
Ciferno, M. A.	Douglas Aircraft Company Long Beach, California
Hayward, K. B.	California State University Long Beach, California
Boucek, G. P.	Boeing Commercial Airplane Company Seattle, Washington
Corwin, W. H.	Douglas Aircraft Company Long Beach, California
Majoros, A.	Douglas Aircraft Company Long Beach, California
Metalis, S. A.	Douglas Aircraft Company Long Beach, California
Hardcastle, K.	Douglas Aircraft Company Long Beach, California
Sandry-Garza, D. L.	Boeing Commercial Airplane Company Seattle, Washington
Dolan, M.	California State University Long Beach, California

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HOW TO USE THIS LIBRARY REFERENCE

This reference is the result of an analysis of a large sample of workload literature. It contains a) a Listing by Author of all References examined, b) a Listing of References by Article Number, and c) a Fact Matrix.

The Fact Matrix provides an index which identifies articles addressing measure reliability or validity and associates them with FAR 25 Appendix D definitions of Workload type. To use this reference simply find the workload type of interest at the top of the Matrix. Then search down the left side of the pages with the desired workload type for the measure of interest. To the right of the desired measure is a list of numbers across the Matrix page. These numbers are arranged under validity and reliability categories. If all articles pertaining to the chosen measure are desired, all reference numbers to the right apply. If only articles pertaining to a specific validity or reliability category are desired, only the numbers in the appropriate column apply.

Once you have found the workload type, measure, category, and validity/reliability of interest, use the numbers listed on the Matrix to search the numerically indexed "Listing of References by Article Number" for the full bibliographical citation of those articles. If more material is needed, search the "Listing of References by Author" to find additional references in the desired topic area.

Refer to the "Listing of References by Author" for a complete list of the articles contained in the library. The entries are arranged alphabetically by the first author's last name. The number to the left of the author's name is the corresponding article number as it appears in the library collection.

ASSESSMENT FORM

Lib. No._____

1st Init._____

2nd Init._____

CHECK

A. Content (If none are checked QUIT)

___ 1 Workload Measurement Primary.

___ 2 Workload Measurement Secondary.

NUMBER OR NAME

B. Quality of Review

___ 1= Formal Review 2= Informal Review 3= No Reviewer

C. Quality of Data (If not 1-3 QUIT)

___ 1= Experiment(s) 2= Case Study(s) (Skip to F.) 3= Theory/Review (Skip to H.)

D. _____Experiment Name if more than one (One per form)

E. Highest Fidelity of Experiment

___ 1= Actual Flight 2= Simulator 3= Applied lab. 4= Basic lab.

CHECK

F. Validities (If none are checked skip to G.)

___ 1 Content.

___ 2 Construct.

___ 3 Predictive.

Independent Variables:

MEMO

G. Reliabilities

___ 1 Test-retest.

___ 2 Split half.

___ 3 Alternate forms.

___ 4 Inter rater.

H. Measure Types

Dependent Variables:

Subjective.

___ 1 NASA Bipolar Scale

___ 2 SWAT

___ 3 WCI/TE

___ 4 Modified Cooper Harper

___ 5 Interviews

___ 6 Surveys

___ 7 Other Subjective Measures

Physiological.

___ 8 Body Fluid

___ 9 Brain Activity

___ 10 Heart

___ 11 Lung

___ 12 Muscle

___ 13 Skin

___ 14 Vision

___ 15 Voice

___ 16 Other Physiological Measures

Performance.

___ 17 Primary Task

___ 17a Time

___ 17b Position

___ 17c Event

___ 18 Normal Secondary Task

___ 18a Time

___ 18b Position

___ 18c Event

___ 19 Artificial Secondary Task

___ 19a Time

___ 19b Position

___ 19c Event

I. Workload Types

___ 4a Degree of Mental.
___ 4b Duration of Mental.
___ 4c Degree of Physical.
___ 4d Duration of Physical.

J. Workoad Functions

___ 1 Flight path control.
___ 2 Collision avoidance.
___ 3 Navigation.
___ 4 Communications.
___ 5 Operation and Monitoring.
___ 6 Command decisions.

K. Workload Factors (Task Demands)

___ 1 Normal Control.
___ 2 Normal Display.
___ 3 Normal Procedure.
___ 5 Normal Monitoring.
___ 8a Normal Communication.
___ 8b Normal Navigation.
___ 6 Non-normal Crew unavailability.
___ 7 Non-normal Automation.
___ 9 Non-normal Procedure.
___ 10 Non-normal Crew incapacitation.

USAF/FAA REVIEW OF WORKLOAD MEASUREMENT METHODS:

VALIDITY, RELIABILITY, AND APPLICABILITY

February 24 and 25, 1987

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VALIDITY, RELIABILITY, AND APPLICABILITY

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USAF/FAA REVIEW OF WORKLOAD MEASUREMENT METHODS:

VALIDITY, RELIABILITY, AND APPLICABILITY

February 24 and 25, 1987

FACT MATRIX

FAB-25 WORKLOAD FACTOR 4a: DEGREE OF MENTAL

MEASURE	VALIDITY			RELIABILITY				APPLICA-BILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
NASA Bipolar Scale	17 28 95 268 346 530 632 666 667 723	17 28 268 412 530 577 666 667 730	17 667			95		
SWAT	28 34 41 42 112 235 339 340 372 465 483(2) 559 678(1,2) 764 769 773	28 34 41 42 94 112 235 338 339 340 372 465 483(2) 678(1,2,3) 766 769 771 773	94 112 235 340 559 766 773	678(3)		340 766		
WCI/TE	13 16 64 66 243 269 367 538 627	13 16 64 66 243 269 367 627	16 66 538	64	64	64	64	

FAR-25 WORKLOAD FACTOR 4a: DEGREE OF MENTAL

MEASURE	VALIDITY			RELIABILITY				APPLICA-BILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Modified Cooper Harper	13 15 16 65 66 130(1) 144 159 161 173(1,2) 175 183 225 243 269 307 344 367 436 459 492 496 509 538 540 583 627 669 735 762 778 793 799	13 15 16 65 66 130(1,2) 144 161 173(1,2) 175 183 187 225 243 269 283 307 367 436 459 492 496 509 583 627 735 761 762 771 778 793	15 16 65 66 173(1,2) 175 183 225 245 255 283 307 370 436 459 492 496 538 583 761 762 778	225 583		173(1,2) 183 283 344 459 496 583 762 793	183 225 762	
Inter-views	180 215 225 291 340 508 509 627 672	225 283 291 340 508 509 627 672 742	225 283 340 672 673 742 762 778	225		180 283 340 672 742 762	180 225 672 762	

FAB-25 WORKLOAD FACTOR 4a: DEGREE OF MENTAL

MEASURE	VALIDITY			RELIABILITY				APPLICA-BILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Interviews (cont'd)	673 742 762 778	746 762 778						
Surveys	97 103 173(1,2) 180 183 215 317 339 428 509 597 672	97 173(1,2) 183 283 317 339 428 509 597 672	173(1,2) 183 283 597 672			173(1,2) 180 183 283 672	180 183 672	
Other Subjective Measures	3 5(1,2,3) 8 15 16 29 33 40 67 93 100(1) 109(1,2) 112 131 135 136 151 158 159 161 172 173(1,2) 175 183 185	3 5(1,2,3) 8 15 16 29 33 40 67 93 102 109(1,2) 112 115 135 136 141 151 156 158 161 172 173(1,2) 175 183	15 16 67 101 102 112 156 173(1,2) 175 183 212(1) 225 247 258(2) 294 314(1,2) 340 449 459 501 502 538 583 598 672	5(1,2,3) 136 225 583 725 726 683	102 131	8 100(1,2) 173(1,2) 183 185 212(1) 217 320 331(1,2) 340 357 409 411 459 583 672 742 762 787 795	67 136 183 225 672 762	

PAR-25 WORKLOAD FACTOR 4a: DEGREE OF MENTAL

MEASURE	VALIDITY			RELIABILITY				APPLICA-BILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Other Subjective Measures (cont'd)	191	187	673					
	212(1)	191	742					
	217	217	762					
	225	225						
	231	231						
	237	237						
	267	247						
	288	291						
	291	294						
	294	314(1,2)						
	314(1,2)	331(1,2)						
	320	340						
	331(1,2)	341						
	340	349						
	341	350						
	349	352						
	352	353						
	353	357						
	357	367						
	358	396						
	367	409						
	396	411						
	409	424						
	424	429						
	429	449						
	449	459						
	459	493(3)						
	493(3)	501						
	501	502						
	502	508						
	508	509						
	50.	574						
	511	583						
	538	610						
	540	618						
	570	627						
	583	672						
	584	683						
	593	742						
	598	762						
	610	769						
	616	787						
	618	795						

FAR-25 WORKLOAD FACTOR 4a: DEGREE OF MENTAL

MEASURE	VALIDITY			RELIABILITY				APPLICA-BILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Other Subjective Measures (cont'd)	627 648(5.5) 669 672 673 726 742 762 769 776 787 795							

FAR-25 WORKLOAD FACTOR 4a: DEGREE OF MENTAL

MEASURE	VALIDITY			RELIABILITY				APPLICA-BILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Body Fluid	408 615 616 726	408 521		725 726				
Brain Activity	3 32 33 71 72 73 86 120 121 134(1,2) 139(2,3) 237 266 427 557 560 618 632 651(2) 726 736 777 795	3 32 33 72 73 86 88 187 237 426 427 557 560 567 618 694 795	120 427 557	121 726		134(1,2) 427 651(1,2) 795		
Heart	3 13 15 16 29 66 67 117 130(1) 134(1,2) 135 151 161 175 184	3 13 15 16 29 66 67 115 130(1,2) 135 151 161 175 187 217	15 16 66 67 175 184 247 261 283 286 407(1,2,3) 459 538 742 758	726		134(1,2) 184 217 283 286 407(1,2) 459 653(2A, 2B, 2C) 655(2,3) 742 758 760	67	

FAR-25 WORKLOAD FACTOR 4a: DEGREE OF MENTAL

MEASURE	VALIDITY			RELIABILITY				APPLICA-BILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Heart (cont'd)	217	243	760					
	223	247	761					
	243	269	778					
	269	283						
	291	291						
	341	338						
	367	341						
	407(1,2,3)	350						
	408	367						
	424	407(1,2,3)						
	459	408						
	469	424						
	538	459						
	540	521						
	581	610						
	595	614						
	610	618						
	612	627						
	614	635						
	615	645						
	618	649(2)						
	627	655(2,3)						
	643	694						
	645	728						
	648(5.2,	735						
	5.3,	737						
	5.4,	739						
	5.5,	742						
	5.6,	746						
	5.7)	758						
	649(2)	759						
	653(2A,	760						
	2B,	761						
	2C)	778						
	655(2,3)	797						
	669							
	726							
	728							
	735							
	736							
	737							
	738							
	739							
	742							

FAR-25 WORKLOAD FACTOR 4a: DEGREE OF MENTAL

MEASURE	VALIDITY			RELIABILITY				APPLICA-BILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Heart (cont'd)	743 747 750 757 758 759 760 776 777 778 782 785 797							
Lung	3 13 15 16 66 134.2 161 175 243 269 341 367 407(1,2) 459 469 538 540 580 584 595 618 627 648(5.4) 655(1) 669 736 742 750 759 782	3 13 15 16 66 175 161 175 187 243 247 269 341 367 407(1,2) 155 527 618 627 655(1) 742 746 759	15 16 66 175 247 407(1,2) 459 538 742			134.2 407(1,2) 459 655(1) 742		

FAR-25 WORKLOAD FACTOR 4a: DEGREE OF MENTAL

MEASURE	VALIDITY			RELIABILITY				APPLICA-BILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Muscle	136 175 459 530 533(1,2,3) 590 595 618 669 726 735 736 750	136 175 187 530 590 618 735	175 261 459	136 726		459	136	
Skin	3 117 134(1) 407(1) 618	3 187 247 407(1) 618 621	247 286 407(1)			134(1) 286 407(1)		
Vision	13 15 16 23 60 66 72 73 77 118 134(1) 151 161 175 209 210 231 243 269 367 455 459	13 15 16 23 60 66 72 73 77 88 151 161 175 187 209 210 231 243 269 367 391 452	15 16 58 66 175 209 459 598			134(1) 209 459 787 793		

FAR-25 WORKLOAD FACTOR 4a: DEGREE OF MENTAL

MEASURE	VALIDITY			RELIABILITY				APPLICA-BILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Vision (cont'd)	530 533(1,2,3) 540 598 627 642 612 660 669 777 787 788 789 793 794	455 459 530 627 642 613 787 793						
Voice	13 66 243 269 469 627	13 66 243 269 627	66					
Other Psychological	121 131 139(2,3) 159 161 271 511 575 590 614 648(5.5) 651(2) 655(1,2,3) 617 726 736	161 271 577 590 614 635 655(1,2,3)	271	121 726	131	651(1,2) 655(1,2,3)		

FAR-25 WORKLOAD FACTOR 4a: DEGREE OF MENTAL

MEASURE	VALIDITY			RELIABILITY				APPLICA-BILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Perform-ance Primary Task: Time	8	8	15	121	102	8	180	
	13	13	16	225	131	30(1,2)	183	
	15	15	17	583		173(1,2)	225	
	16	16	65	600		180	274	
	17	17	66	678(3)		183	762	
	23	23	101	683		184	780	
	30(1,2)	30(1,2)	102			185		
	33	33	112			209		
	34	34	120			212(2)		
	40	40	156			286		
	53(1)	53(1)	173(1,2)			331(1,2)		
	60	60	174			411		
	65	65	175			459		
	66	66	183			472(1)		
	71	69	184			496		
	72	72	209			583		
	112	88	212(2)			651(1,2)		
	120	102	225			653(2A,2B, 2C)		
	121	112	233					
	130(1)	130(1)	234			655(1,2,3)		
	131	135	235			734		
	135	150	245			762		
	139(2,3)	151	247			780		
	150	156	255			793		
	151	158	257			795		
	158	161	261					
	159	172	271					
	161	173(1,2)	274					
	172	174	286					
	173(1,2)	175	294					
	175	183	307					
	180	209	370					
	183	210	436					
	184	225	459					
	185	233	492					
	209	234	496					
	210	235	501					
	212(2)	237	502					
	223	243	538					
	225	247	557					
	233	269	583					
	235	271	598					
	237	291	600					

FAR-25 WORKLOAD FACTOR 4a: DEGREE OF MENTAL

MEASURE	VALIDITY			RELIABILITY				APPLICA-BILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Perform-ance Primary Task: Time (cont'd)	243	294	667					
	257	307	673					
	266	331(1,2)	762					
	267	341	778					
	269	347						
	271	353						
	291	372						
	294	396						
	307	408						
	331(1,2)	411						
	341	412						
	346	434						
	347	436						
	353	458						
	372	459						
	396	472						
	408	486						
	436	490						
	456	491						
	458	492						
	459	493(1,2,3)						
	492	496						
	493(1,2,3)	501						
	496	502						
	501	516						
	502	524(1,2,3)						
	511	530						
	516	531						
	530	557						
	533(1,3)	560						
	538	576						
	540	577						
	557	583						
	560	590						
	575	600						
	576	618						
	580	619						
	583	622						
	584	645						
	590	649(2)						
	593	655(1,2,3)						
	595	666						
	598	667						
	600	678(1,2,3)						

FAR-25 WORKLOAD FACTOR 4a: DEGREE OF MENTAL

MEASURE	VALIDITY			RELIABILITY				APPLICABILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Performance Primary Task: Time (cont'd)	612	730						
	615	679						
	617	680						
	618	683						
	622	694						
	632	734						
	640	762						
	643	769						
	645	778						
	648 (5.2,	780						
	5.3,	793						
	5.4	795						
	5.7	797						
	649 2							
	651 2							
	653 2B,2C							
	655 1,2,3							
	659							
	666							
	667							
	672							
	678 1,2							
	773							
	762							
	764							
	769							
	775							
	776							
	780							
	782							
	793							
	794							
	795							
	797							
	799							
Performance Primary Task Position	[illegible]	5 [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
	8	8	16	[illegible]	[illegible]	[illegible]	[illegible]	
	[illegible]	13	[illegible]	125		195	[illegible]	
	5	15	55	582		174	[illegible]	
	6	16	56	600		[illegible]	[illegible]	
	[illegible]	[illegible]	[illegible]			180	[illegible]	
	23	23	[illegible]			183		
	20 1,2	20 1,2	[illegible]			184		

FAR-25 WORKLOAD FACTOR 4a: DEGREE OF MENTAL

MEASURE	VALIDITY			RELIABILITY				APPLICA-BILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Performance	34	34	120			185		
Primary	60	60	148			209		
Task	65	65	156			212(2)		
Position	66	66	173(1)			286		
Control	[illegible]	69	174			331(2)		
	96	102	175			344		
	109	109	183			409		
	[illegible]	[illegible]	184			427		
	[illegible]	[illegible]	209			459		
	[illegible]	130	212(2)			472(1)		
	[illegible]	135	225			331		
	[illegible]	144	233			496		
	[illegible]	150	234			583		
	34 1,2	151	235			551(1,2)		
	35	156	245			552(1,2,3)		
	39 2,3	158	247			553(2A,2B, 2C)		
	44	173	255					
	[illegible]	174	257			555(1,2,3)		
	[illegible]	175	258(2)			762		
	58	183	261			780		
	59	187	271			793		
	[illegible]	209	274			795		
	[illegible]	210	286					
	80	225	294					
	83	231	307					
	84	233	314(1,2)					
	85	234	370					
	96	235	427					
	209	237	436					
	210	243	459					
	212 2	247	492					
	225	268	496					
	231	269	501					
	233	271	502					
	235	294	538					
	237	306	557					
	243	307	559					
	257	314(1,2)	583					
	266	331	598					
	267	341	600					
	268	353	667					
	269	367	673					
	271	391	762					

AD-A191 209 PROCEEDINGS OF THE WORKSHOP ON THE ASSESSMENT OF CREW WORKLOAD MEASUREMEN..(U) DOUGLAS AIRCRAFT CO LONG BEACH CA M A BIFERNO JUN 87 AFWAL-TR-87-3043-VOL-2 2/2

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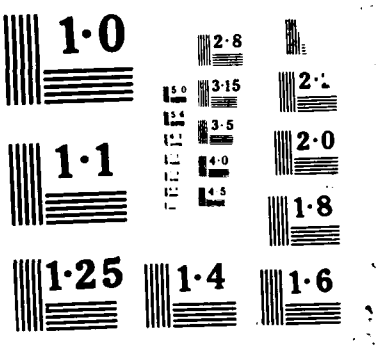
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FAR-25 WORKLOAD FACTOR 4a: DEGREE OF MENTAL

MEASURE	VALIDITY			RELIABILITY				APPLICA-BILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Perform-ance Primary Task: Position (cont'd)	294 307 314(1,2) 331(2) 341 344 353 367 396 408 409 427 428 429 436 455 458 459 492 493(1,2,3) 496 501 502 511 516 518(2) 530 532 533(1,2,3) 538 540 557 559 560 575 576 580 583 584 590 593 595 598	396 408 409 427 428 429 436 455 458 459 467(2) 472(1) 483(2) 486 491 492 493(1,2,3) 496 501 502 516 518(2) 521 524(1,2,3) 530 531 532 557 559 560 576 577 583 590 600 605 606 608(2) 618 621 622 635 642	778					

FAB-25 WORKLOAD FACTOR 4a: DEGREE OF MENTAL

MEASURE	VALIDITY			RELIABILITY				APPLICA-BILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Perform-ance Primary Task: Position (cont'd)	600 605 608(2) 615 618 622 632 640 642 643 645 648(5.2, 5.3, 5.4, 5.7) 649(2) 651(2) 652(1,2,3) 653(2A,2B, 2C) 655(1,2,3) 659 612 617 660 483 667 669 673 739 762 776 778 780 782 793 794 795 797 799	645 652(1,2,3) 655(1,2,3) 667 694 730 731 739 762 778 780 793 795 797						

FAR-25 WORKLOAD FACTOR 4a: DEGREE OF MENTAL

MEASURE	VALIDITY			RELIABILITY				APPLICA-BILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Perform-Primary Task: Event	3	3	15	5(2,3)	102	8	180	
	5(2,3)	5(2,3)	16	121	131	30(1)	183	
	8	8	94	255		101(1,2)	225	
	13	13	101	583		134(1,2)	274	
	15	15	192	600		173(2)	762	
	16	16	112	678(3)		180	780	
	23	23	156	683		183		
	30(1)	30(1)	173	725		184		
	32	32	175			185		
	33	33	183			209		
	34	34	184			212(2)		
	40	40	209			286		
	53(1)	53(1)	212(2)			331(1,2)		
	60	60	225			344		
	71	69	233			409		
	100(1)	88	235			427		
	112	94	257			472(2)		
	117	102	271			496		
	121	112	274			583		
	130(1)	130(1,2)	286			651(1,2)		
	131	150	294			652(1,2,3)		
	134(1,2)	156	307			655(1,2,3)		
	139(2,3)	158	314(1,2)			734		
	150	173(2)	427			762		
	158	175	436			780		
	159	183	492			793		
	173(2)	191	496			795		
	175	209	501					
	180	210	538					
	183	225	557					
	184	231	583					
	185	233	598					
	191	235	600					
	209	237	673					
	210	243	762					
	212(2)	268	778					
	223	269						
	225	271						
	231	291						
	233	294						
	235	306						
	237	307						
	243	314(1,2)						
	257	331(1,2)						

FAR-25 WORKLOAD FACTOR 4a: DEGREE OF MENTAL

MEASURE	VALIDITY			RELIABILITY				APPLICA-BILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Perform-ance Primary Task: Event (cont'd)	268	347						
	269	353						
	271	372						
	291	408						
	294	409						
	307	427						
	314(1,2)	428						
	331	434						
	344	436						
	346	455						
	347	458						
	353	467						
	372	483(2)						
	408	491						
	409	492						
	427	493(1,2,3)						
	428	496						
	436	501						
	455	503						
	456	516						
	458	518(2)						
	483(2)	521						
	492	524(1,2,3)						
	493(1,2,3)	530						
	496	531						
	501	532						
	511	557						
	516	560						
	518(2)	574						
	530	577						
	532	583						
	533(3)	590						
	538	600						
	540	605						
	557	606						
	560	608(2)						
	575	610						
	581	619						
	583	621						
	584	622						
	590	635						
	593	645						
	595	652(1,2,3)						

FAR-25 WORKLOAD FACTOR 4a: DEGREE OF MENTAL

MEASURE	VALIDITY			RELIABILITY				APPLICA-BILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Perform-ance Primary Task: Event (cont'd)	598 600 601 605 608(2) 610 612 615 617 622 640 643 645 648(5.2, 5.3, 5.4, 5.6 5.7) 649(2) 651(2) 652(1,2,3) 653(2A,2B, 2C) 655(1,2,3) 659 666 673 678 723 678 739 762 764 769 776 778 780 782 793 794 795 797 799	655(1,2,3) 666 678(1,2,3) 731 679 680 683 694 734 739 762 769 778 780 793 795 797						

FAR-25 WORKLOAD FACTOR 4a: DEGREE OF MENTAL

MEASURE	VALIDITY			RELIABILITY				APPLICABILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Performance Normal Secondary Task: Time	8	8	66	225		8	183	
	30(1,2)	30(1,2)	156	583		30(1,2)	225	
	60	60	173(1,2)	600		173(1,2)	762	
	66	66	174			183	780	
	71	69	175			184		
	73	73	183			209		
	109(2)	109(2)	184			212(2)		
	139(2,3)	156	209			344		
	158	158	212(2)			411		
	173(1,2)	173(1,2)	225			459		
	175	174	234			583		
	183	175	271			653(2A,2B, 2C)		
	184	183	294					
	196	209	307			734		
	209	210	436			762		
	210	225	449			780		
	212(2)	234	459			793		
	225	237	501			795		
	237	243	502					
	243	268	583					
	268	269	600					
	269	271	667					
	271	291	673					
	288	294	762					
	291	307	778					
	294	408						
	307	411						
	344	436						
	408	449						
	436	458						
	449	459						
	458	501						
	459	502						
	501	524(1,2,3)						
	502	576						
	540	583						
	576	600						
	583	618						
	595	666						
	600	667						
	618	731						
	648(5.2)	734						
	653(2A,2B, 2C)	762						

FAB-25 WORKLOAD FACTOR 4a: DEGREE OF MENTAL

MEASURE	VALIDITY			RELIABILITY				APPLICA-BILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Perform-ance Normal Secondary Task: Time (cont'd)	666 667 673 723 762 777 778 780 782 793 795	778 780 793 795						
Perform-ance Normal Secondary Task: Position	8 60 71 134(2) 135 139(2,3) 158 175 183 184 209 210 212(2) 225 237 243 268 269 271 294 307 344 408 436 458 470 496 501 540 576 583 595	8 60 69 135 156 158 175 183 209 210 225 237 243 268 269 271 294 307 408 411 436 458 496 501 524(1,2,3) 576 583 600 619 620 666 731	156 175 183 184 209 212(2) 225 271 274 294 307 436 470 496 501 583 600 673 762 778	225 583 600		8 134(2) 183 184 209 212(2) 344 411 496 583 553(2A,2B, 2C) 762 780 793 795	183 225 274 762 780	

FAR-25 WORKLOAD FACTOR 4a: DEGREE OF MENTAL

MEASURE	VALIDITY			RELIABILITY				APPLICA-BILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Perform-ance Normal Secondary Task: Position (cont'd)	600 648(5.2) 653(2A,2B, 2C) 666 673 762 777 778 780 782 793 795	730 762 778 780 793 795						
Perform-ance Normal Secondary Task: Event	8 23 30(1,2) 60 66 71 134(1,2) 135 139(2,3) 158 161 173(1) 175 183 184 209 210 212(2) 225 237 243 268 269 271 288 291 294 307 344	8 23 30(1,2) 60 66 69 115 135 156 158 161 173(1) 174 175 183 209 210 225 234 237 243 268 269 271 291 294 307 408 411	66 156 173(1) 174 175 183 184 209 212(2) 225 234 271 274 294 307 436 449 459 470 496 501 502 583 600 673 762 778	225 583 600		8 30(1,2) 134(1,2) 173(1) 183 184 209 212(2) 344 411 459 496 583 653(2A,2C) 734 762 780 793 795	183 225 274 762 780	

FAR-25 WORKLOAD FACTOR 4a: DEGREE OF MENTAL

MEASURE	VALIDITY			RELIABILITY				APPLICA-BILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Perform-ance Secondary Task: Event (cont'd)	408 436 449 458 459 470 483(2) 496 501 502 540 583 593 595 600 618 648(5.2) 653(2A,2C) 673 723 762 777 778 780 782 793 795	436 449 458 459 483(2) 496 501 502 524(1,2,3) 583 600 618 619 620 730 694 734 762 778 780 793 795						
Perform-ance Artificial Secondary Task: Time	13 15 16 17 41 77 100(1) 118 121 135 136 139(3) 150 151 243	13 15 16 17 41 77 102 135 136 141 150 151 187 234 243	15 16 17 101 102 234 255 258(2) 274 307 314(1,2) 370 407(1,2,3) 492 502	121 136	102	100(1) 357 407(1,2) 780 793 796	136 274 780	

FAR-25 WORKLOAD FACTOR 4a: DEGREE OF MENTAL

MEASURE	VALIDITY			RELIABILITY				APPLICA-BILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Perform-ance Artificial Secondary Task: Time (cont'd)	268 269 307 314(1,2) 347 357 367 407(1,2,3) 424 492 502 518(2) 536 538 540 575 590 640 659 667 669 673 780 793 796	268 269 306 307 314(1,2) 338 347 350 357 367 407 424 452 467(1,2) 492 502 518(2) 536 577 590 667 731 780 793 796	538 667 673					
Perform-ance Artificial Secondary Task: Position	121 136 139(3) 151 243 269 271 347 424 492 536 538 540 575 640 659 673 780	102 136 141 151 243 269 271 306 347 350 424 452 472(2) 492 536 577 731 780	102 271 492 538 673	121 136	102	472(2) 780	136 780	

FAB-25 WORKLOAD FACTOR 4a: DEGREE OF MENTAL

MEASURE	VALIDITY			RELIABILITY				APPLICA-BILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Perform-ance Artificial Secondary Task: Event	3	3	15	136	102	100(1)	136	
	15	15	16	583		357	780	
	16	16	17			407(1,2)		
	17	17	102			427		
	41	41	234			472(1)		
	77	77	255			583		
	86	86	258(2)			780		
	100(1)	102	271			793		
	118	115	307			796		
	135	135	314(1,2)					
	136	136	370					
	139(2,3)	141	407(1,2,3)					
	144	144	427					
	150	150	492					
	236	187	501					
	243	234	502					
	266	243	538					
	268	268	583					
	269	269	667					
	271	271	673					
	307	306						
	314(1,2)	307						
	357	314(1,2)						
	407(1,2,3)	357						
	427	391						
	492	407(1,2,3)						
	501	427						
	502	452						
	518(2)	472						
	532	486						
	536	490						
	538	492						
	540	501						
	575	502						
	583	503						
	590	518(2)						
	605	531						
	608(2)	532						
	640	536						
	659	577						
	612	583						
	648(5.4)	590						
	660	605						
	667	606						

FAR-25 WORKLOAD FACTOR 4a: DEGREE OF MENTAL

MEASURE	VALIDITY			RELIABILITY				APPLICA-BILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Perform-ance Artificial Secondary Task: Event (cont'd)	669 673 780 793 796	608(2) 667 780 793 796						

FAR-25 WORKLOAD FACTOR 4b: DURATION OF MENTAL

MEASURE	VALIDITY			RELIABILITY				APPLICABILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
NASA Bipolar Scale	17 95 268 632	17 268	17			95		
SWAT	42 465	42 465						
WCTE	64 66 269 367	64 66 269 367	66	64	64	64	64	
Modified Cooper Harper	65 66 159 183 225 269 367 344 367 496 509 583 669 762 778 799	65 66 183 225 269 367 496 509 583 762 778	65 66 183 225 255 370 496 583 762 778	225 583		183 344 496 583 762	183 225 762	
Interviews	180 215 225 291 509 672 673 742 762 778	225 291 509 672 742 746 762 778	225 672 673 742 762 778	225		180 672 742 762	180 225 672 762	
Surveys	180 183 215 509	183 509 597 672	183 597 672			180 183 672	180 183 672	

FAR-25 WORKLOAD FACTOR 4b: DURATION OF MENTAL

MEASURE	VALIDITY			RELIABILITY				APPLICA-BILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Surveys (cont'd)	597 672							
Other Subjective Measures	3 40 67 93 131 158 159 183 185 217 225 237 291 294 367 396 449 502 509 583 593 616 669 672 673 742 762	3 40 67 93 102 158 183 217 225 237 247 291 294 367 396 449 502 509 574 583 672 742 762	67 102 183 225 247 294 449 502 583 672 673 742 762	225 563	102 131	183 185 217 583 672 742 762	67 183 225 672 762	

FAR-25 WORKLOAD FACTOR 4b: DURATION OF MENTAL

MEASURE	VALIDITY			RELIABILITY				APPLICA-BILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Body Fluid	408 615 616	408						
Brain Activity	3 121 237 139(2,3) 632 736	3 237		121				
Heart	3 66 67 184 217 223 269 291 367 408 469 614 615 669 736 742 743 747 758 760 778	3 66 67 217 247 269 291 367 408 614 742 746 758 760 778	66 67 184 247 261 742 758 760 778			184 217 742 758 760	67	
Lung	3 66 269 367 469 669 736 742	3 66 247 269 367 742 746	66 247 742			742		
Muscle	469 669 736		261					

FAR-25 WORKLOAD FACTOR 4b: DURATION OF MENTAL

MEASURE	VALIDITY			RELIABILITY				APPLICA-BILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Skin	3	3 247	247					
Vision	60 66 77 209 210 269 367 669 670	60 66 77 209 210 269 367 452	66 209			209		
Voice	66 269 469	66 269	66					
Other Physiolo-gical Measures	121 131 159 139(2,3) 614 736	614		121	131			

FAR-25 WORKLOAD FACTOR 4b: DURATION OF MENTAL

MEASURE	VALIDITY			RELIABILITY				APPLICA-BILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Perform-ance Primary Task: Time	17 30(1,2) 40 60 65 66 121 131 139(2,3) 150 158 159 180 183 184 185 209 210 223 225 237 257 269 291 294 396 408 458 496 502 528 529 583 593 600 615 622 632 673 762 778 799	17 30(1,2) 40 60 65 66 69 102 150 158 174 183 209 210 225 237 247 269 291 294 396 408 434 458 496 502 529 583 600 622 762 778	17 65 66 102 174 183 184 209 225 247 255 257 261 294 370 496 502 583 600 673 762 778	121 225 583 600	102 131	30 180 183 184 185 209 496 583 762	180 183 225 762	

FAR-25 WORKLOAD FACTOR 4b: DURATION OF MENTAL

MEASURE	VALIDITY			RELIABILITY				APPLICA-BILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Perform-ance Primary Task: Position	17 30(1,2) 60 65 66 95 121 131 139(2,3) 150 158 159 180 183 184 185 209 210 225 237 257 268 269 294 344 367 396 408 458 496 502 583 593 600 615 622 632 669 673 762 778 799	17 30(1,2) 60 65 66 69 102 150 158 174 183 209 210 225 237 247 268 269 294 367 396 408 458 496 502 583 600 622 731 762 778	17 65 66 102 174 183 184 209 225 247 255 257 261 294 370 496 502 583 600 673 762 778	121 225 583 600	102 131	30(2) 95 180 183 184 185 209 344 496 583 762	180 183 225 762	

FAR-25 WORKLOAD FACTOR 4b: DURATION OF MENTAL

MEASURE	VALIDITY			RELIABILITY				APPLICA-BILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Perform-ance Primary Task: Event	3 30(1) 40 60 121 131 139(2,3) 150 158 159 180 183 184 185 209 210 223 225 237 257 268 269 291 294 344 408 458 496 583 593 600 615 622 673 762 778 799	3 30(1) 40 60 69 102 150 158 183 209 210 225 237 268 269 291 294 408 434 458 496 574 583 600 622 731 762 778	102 183 184 209 225 257 294 496 583 600 673 762 778	121 225 583 600	102 131	30(1) 180 183 184 185 209 344 496 583 762	180 183 225	

FAR-25 WORKLOAD FACTOR 4b: DURATION OF MENTAL

MEASURE	VALIDITY			RELIABILITY				APPLICA-BILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Perform-ance Normal Secondary Task: Time	30(1,2) 60 66 139(2,3) 158 183 184 209 210 225 237 268 269 291 294 344 408 449 458 502 583 600 673 762 778	30(1,2) 60 66 69 158 174 183 209 210 225 237 268 269 291 294 408 449 458 502 583 600 731 762 778	66 174 183 184 209 225 294 449 502 583 600 673 762 778	225 583 600		30 183 184 209 344 583 762	183 225 762	
Perform-ance Normal Secondary Task: Position	60 139(2,3) 158 183 184 209 210 225 237 268 269 294 344 408 458 496 583 600	60 69 158 183 209 210 225 237 268 269 294 408 458 496 583 600 731 762	183 184 209 225 294 496 583 600 673 762 778	225 583 600		183 184 209 344 496	183 225 762	

VAR-25 WORKLOAD FACTOR 4b: DURATION OF MENTAL

MEASURE	VALIDITY			RELIABILITY				APPLICA-BILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Perform-ance Normal Secondary Task: Position (cont'd)	673 762 778	778						
Perform-ance Normal Secondary Task: Event	30(1,2) 60 66 139(1,3) 158 183 184 209 210 225 237 268 269 291 294 344 408 449 458 496 502 583 593 600 673 762 778	30 60 66 69 158 174 183 209 210 225 237 268 269 291 294 408 449 458 496 502 583 600 762 778	66 174 183 184 209 225 294 449 496 502 583 600 673 762 778	225 583 600		30 183 184 209 344 496 583 762	183 225 762	
Perform-ance Artificial Secondary Task: Time	17 77 121 139(3) 150 268 269 367	17 77 102 150 268 269 367 452	17 102 255 370 502 673	121	102			

FAR-25 WORKLOAD FACTOR 4b: DURATION OF MENTAL

MEASURE	VALIDITY			RELIABILITY				APPLICA-BILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Perform-ance Artificial Secondary Task: Time (cont'd)	502 536 669 673	502 536 731						
Perform-ance Artificial Secondary Task: Position	121 139(3) 269 536 673	102 269 452 536 731	102 673	121	102			
Perform-ance Artificial Secondary Task: Event	3 17 77 139(2,3) 150 268 269 502 536 583 669 673	3 17 77 102 150 268 269 452 502 536 583	17 102 255 370 502 583 673	583	102	583		

FAR-25 WORKLOAD FACTOR 4c: DEGREE OF PHYSICAL

MEASURE	VALIDITY			RELIABILITY				APPLICA-BILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
NASA Bipolar Scale	28 95 268 530	28 268 539				95		
SWAT	28 41 339 340 773	28 41 339 340 766 773	340 766 773			340 766		
WCI/TE	13 16 64 243 367 538	13 16 64 243 367	16 538	64	64	64	64	
Modified Cooper Harper	13 15 16 65 130(1) 159 175 183 225 243 344 367 436 459 492 496 509 538 540 583 669 735 762 778 793 799	13 15 16 65 130(1) 175 183 187 225 243 283 367 436 459 492 496 509 583 735 761 762 778 793	15 16 65 175 183 225 283 436 459 492 496 538 583 761 762 778	225 583		183 283 344 459 496 583 762 793	183 225 762	

FAR-25 WORKLOAD FACTOR 4c: DEGREE OF PHYSICAL

MEASURE	VALIDITY			RELIABILITY				APPLICA-BILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Interviews	180 215 225 291 340 508 509 672 673 742 762 778	225 283 291 340 508 509 672 742 762 778	225 283 340 672 673 742 762 778	225		180 283 340 672 742 762	180 225 672 762	
Surveys	103 180 183 215 339 428 509 597 672	183 283 339 428 509 597 672	183 283 597 672			180 183 283 672	180 183 672	
Other Subjective Measures	5(1,2,3) 8 15 16 29 33 40 67 93 98 109(1,2) 151 158 159 172 175 183 217 225 231 237	5(1,2,3) 8 15 16 29 33 40 67 93 98 102 109(1,2) 115 151 158 172 175 183 187 217 225	15 16 67 98 101 102 175 183 225 240 314(1,2) 340 459 538 583 672 673 742 762	5(1,2,3) 98 225 583	102	8 183 217 240 340 357 409 459 583 672 742 762 795	67 183 225 672 762	

FAR-25 WORKLOAD FACTOR 4c: DEGREE OF PHYSICAL

MEASURE	VALIDITY			RELIABILITY				APPLICA-BILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Other Subjective Measures (cont'd)	240 291 314(1,2) 340 341 349 352 353 357 358 367 409 429 459 508 509 538 540 570 583 584 610 616 669 672 673 742 762 795	231 237 240 291 314(1,2) 340 341 349 352 353 357 367 409 429 459 508 509 583 610 672 742 762 795						

FAR-25 WORKLOAD FACTOR 4c: DEGREE OF PHYSICAL

MEASURE	VALIDITY			RELIABILITY				APPLICA-BILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Body Fluid	408 615 616	408 521						
Brain Activity	32 33 72 73 237 736 795	32 33 72 73 187 237 795				795		
Heart	13 15 16 29 67 117 130(1) 151 175 184 217 243 291 341 367 407(1) 408 459 469 538 540 586 595 610 614 615 643 648(5.4) 669 735 736 742 743	13 15 16 29 67 115 130(1) 151 175 187 217 243 283 291 341 367 407(1) 408 459 521 610 614 735 742 758 760 761 778	15 16 67 175 184 261 283 286 407(1) 459 538 742 758 760 761 778			184 217 283 286 407(1) 459 742 758 760	67	

FAR-25 WORKLOAD FACTOR 4c: DEGREE OF PHYSICAL

MEASURE	VALIDITY			RELIABILITY				APPLICA-BILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Heart (cont'd)	747 758 760 778 785							
Lung	13 15 16 175 243 341 367 407(1) 459 469 538 540 566 582 584 586 595 648(5.4) 669 736 742	13 15 16 115 175 187 243 341 367 407(1) 459 521 566 742	15 16 175 407(1) 459 538 566 742			407(1) 459 742		
Muscle	175 459 469 530 590 595 669 735 736	175 187 459 530 590 735	175 261 459			459		
Skin	117 407(1)	187 407(1) 621	286 407(1)			286 407(1)		

FAR-25 WORKLOAD FACTOR 4c: DEGREE OF PHYSICAL

MEASURE	VALIDITY			RELIABILITY				APPLICA-BILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Vision	13 15 16 23 72 73 151 175 209 210 231 243 367 459 530 540 669 788 793	13 15 16 23 72 73 151 175 187 209 210 231 243 367 452 459 530 613 793	15 16 175 198 209 459			209 459 793		
Voice	13 243 469	13 243						
Other Physiological Measures	159 240 590 614 736	240 590 614	240			240		

FAR-25 WORKLOAD FACTOR 4c: DEGREE OF PHYSICAL

MEASURE	VALIDITY			RELIABILITY				APPLICA-BILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Perform-ance Primary Task: Time	8	8	15	225	102	8	180	
	13	13	16	583		180	183	
	15	15	65	600		183	225	
	16	16	101			184	762	
	23	23	102			209		
	33	33	175			212(2)		
	40	40	183			286		
	53(1)	53(1)	184			459		
	65	65	198			496		
	72	72	209			583		
	130(1)	102	212(2)			762		
	151	130(1)	225			793		
	158	151	257			795		
	159	158	261					
	172	172	286					
	175	175	436					
	180	183	459					
	183	209	492					
	184	210	496					
	209	225	538					
	210	237	566					
	212(2)	243	583					
	225	291	600					
	237	341	673					
	243	353	762					
	257	408	778					
	291	436						
	341	458						
	353	459						
	408	486						
	436	490						
	458	492						
	459	496						
	492	516						
	496	524(1,2,3)						
	516	530						
	530	531						
	538	566						
	540	583						
	566	590						
	582	600						
	583	762						
	584	778						
	590	793						

FAR-25 WORKLOAD FACTOR 4c: DEGREE OF PHYSICAL

MEASURE	VALIDITY			RELIABILITY				APPLICA-BILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Perform-ance Primary Task: Time (cont'd)	595 600 615 643 648(5.4) 673 762 778 793 795 799	795						
Perform-ance Primary Task: Position	5(1,3) 8 13 15 16 23 65 95 109(1) 117 130(1) 151 158 159 175 180 183 184 209 210 212(2) 225 231 237 240 243 257 268 314(1,2) 341 344 353	5(1,3) 8 13 15 16 23 65 102 109(1) 115 130(1) 151 158 175 183 187 209 210 225 231 237 240 243 268 314(1,2) 341 353 367 408 409 428 429	15 16 65 101 102 175 183 184 198 209 212(2) 225 240 257 261 286 314(1,2) 436 459 492 496 538 566 583 600 673 762 778	5(1,3) 225 583 600	102	8 95 180 183 184 209 212(2) 240 286 344 409 459 496 583 762 793 795	180 183 225 762	

FAR-25 WORKLOAD FACTOR 4c: DEGREE OF PHYSICAL

MEASURE	VALIDITY			RELIABILITY				APPLICA-BILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Perform-ance Primary Task: Position (cont'd)	367 408 409 428 429 436 458 459 492 496 516 518(2) 530 532 538 540 566 582 583 584 590 595 600 615 643 648(5.4) 669 673 762 778 793 795 799	436 458 459 486 492 496 516 518(2) 521 524(1,2,3) 530 531 532 566 583 590 600 621 762 778 793 795						
Perform-ance Primary Task: Event	5(2,3) 8 13 15 16 23 32 33 40 53(1)	5(2,3) 8 13 15 16 23 32 33 40 53(1)	15 16 101 102 175 183 184 198 209 212(2)	5(2,3) 225 583 600	102	8 180 183 184 209 212(2) 286 344 409 496	180 183 225 762	

FAR-25 WORKLOAD FACTOR 4c: DEGREE OF PHYSICAL

MEASURE	VALIDITY			RELIABILITY				APPLICA-BILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Perform-ance Primary Task: Event (cont'd)	117 130(1) 158 159 175 180 183 184 209 210 212(2) 225 231 237 243 257 268 291 314(1,2) 344 353 408 409 428 436 458 492 496 516 518(2) 530 532 538 540 582 583 584 590 595 600 601 610 615 643 648(5.4)	102 130(1) 158 175 183 209 210 225 231 237 243 268 291 314(1,2) 353 408 409 428 436 458 492 496 516 518 521 524(1,2,3) 530 531 532 583 590 600 610 621 762 778 793 795	225 257 286 314(1,2) 436 492 496 538 583 600 673 762 778			583 762 793 795		

FAR-25 WORKLOAD FACTOR 4c: DEGREE OF PHYSICAL

MEASURE	VALIDITY			RELIABILITY				APPLICA-BILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Perform-ance Primary Task: Event (cont'd)	673 762 778 793 795 799							
Perform-ance Normal Secondary Task: Time	8 73 158 175 183 184 209 210 212(2) 225 237 243 268 291 109(2) 344 408 436 458 459 540 583 595 600 673 762 778 793 795	8 73 158 175 183 209 210 225 237 243 268 291 109(2) 408 436 458 459 524(1,2,3) 583 600 762 778 793 795	175 183 184 209 212(2) 225 436 459 583 600 673 762 778	225 583 600		8 183 184 209 212(2) 344 459 583 762 793 795	183 225 762	
Perform-ance Normal Secondary Task: Position	8 158 175 183 184 209 210 212(2)	8 158 175 183 209 210 225 237	175 183 184 209 212(2) 225 436 496	225 583 600		8 183 184 209 212(2) 344 496 583	183 225 762	

FAR-25 WORKLOAD FACTOR 4c: DEGREE OF PHYSICAL

MEASURE	VALIDITY			RELIABILITY				APPLICA-BILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Perform-ance Normal Secondary Task: Position (cont'd)	225 237 243 268 344 408 436 458 496 540 583 595 600 673 762 778 793 795	243 268 408 436 458 496 524(1,2,3) 583 600 762 778 793 795	583 600 673 762 778			762 793 795		
Perform-ance Normal Secondary Task: Event	8 23 158 175 183 184 209 210 212(2) 225 237 243 268 291 344 408 436 458 459 496 540 583 595 600 673 762	8 23 115 158 175 183 209 210 225 237 243 268 291 408 436 458 459 496 524(1,2,3) 583 600 762 778 793 795	175 183 184 209 212(2) 225 436 459 496 583 600 673 762 778	225 583 600		8 183 184 209 212(2) 344 459 496 583 762 793 795	183 225 762	

FAR-25 WORKLOAD FACTOR 4c: DEGREE OF PHYSICAL

MEASURE	VALIDITY			RELIABILITY				APPLICA-BILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Perform-ance Normal Secondary Task: Event (cont'd)	778 793 795							
Perform-ance Artificial Secondary Task: Time	13 15 16 41 151 243 268 314(1,2) 357 367 407(1) 492 518(2) 538 540 566 590 669 673 793	13 15 16 41 102 151 187 243 268 314(1,2) 357 367 407(1) 452 492 518(2) 566 590 793	15 16 101 102 314(1,2) 407(1) 492 538 566 673	102		357 407(1) 793		
Perform-ance Artificial Secondary Task: Position	151 243 492 538 540 566 673	102 151 243 452 492 566	102 492 538 566 673		102			
Perform-ance Artificial Secondary Task: Event	15 16 41 243 268 314(1,2) 357	15 16 41 102 115 187 243	15 16 102 314(1,2) 407(1) 492 538	583	102	357 407(1) 583 793		

FAR-25 WORKLOAD FACTOR 4c: DEGREE OF PHYSICAL

MEASURE	VALIDITY			RELIABILITY				APPLICA-BILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Perform-ance Artificial Secondary Task: Event (cont'd)	407(1) 492 518(2) 532 538 540 583 590 648(5.4) 669 673 793	268 314(1,2) 357 407 452 486 490 492 518(2) 531 532 583 590 793	583 673					

FAR-25 WORKLOAD FACTOR 4d: DURATION OF PHYSICAL

MEASURE	VALIDITY			RELIABILITY				APPLICA-BILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
NASA BiPolar Scale	95 268	268				95		
WCI/TE	64 367	64 367		64	64	64	64	
Modified Cooper-Harper	65 159 183 225 367 496 509 583 762 778 799	65 183 225 367 496 509 583 762 778	65 183 225 496 583 762 778	225 583		183 496 583 762	183 225 762	
Inter-views	180 215 225 291 509 672 673 742 762 778	235 291 509 672 742 762 778	225 672 673 742 762 778	225		180 672 742 762	180 225 672 762	
Surveys	180 183 215 509 597 672	183 509 597 672	183 597 672			180 183 672	180 183 672	

FAR-25 WORKLOAD FACTOR 4d: DURATION OF PHYSICAL

MEASURE	VALIDITY			RELIABILITY				APPLICA-BILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Other Subjective Measures	40	40	67	98		183	67	
	67	67	98	225		217	183	
	93	93	183	583		240	225	
	98	98	225			583	672	
	109(1,2)	109(1,2)	240			672	762	
	158	158	583			742		
	159	183	672			762		
	183	217	673					
	217	225	742					
	225	237	762					
	237	240						
	240	291						
	291	367						
	367	509						
	509	583						
	583	672						
	616	742						
	669	762						
	672							
	673							
	742							
	762							

FAR-25 WORKLOAD FACTOR 4d: DURATION OF PHYSICAL

MEASURE	VALIDITY			RELIABILITY				APPLICA-BILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Body Fluid	408 615 616	408						
Brain Activity	72 237 736	72 237						
Heart	67 184 217 291 367 408 469 614 615 669 736 742 743 747 758 760 778	67 217 291 367 408 614 742 758 760 778	67 184 261 742 758 760 778			184 217 742 758 760	67	
Lung	367 469 566 669 736 742	367 566 742	566 742			742		
Muscle	469 669 736		261					
Vision	72 209 210 367 669 670	72 209 210 367 452	209			209		
Voice	469							

FAR-25 WORKLOAD FACTOR 4d: DURATION OF PHYSICAL

MEASURE	VALIDITY			RELIABILITY				APPLICA-BILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Other Physio-logical	159 240 614 736	240 614	240			240		

FAR-25 WORKLOAD FACTOR 4d: DURATION OF PHYSICAL

MEASURE	VALIDITY			RELIABILITY				APPLICABILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Performance Primary Task: Time	40 65 72 158 159 180 183 184 209 210 225 237 257 291 408 458 496 528 529 566 583 600 615 673 762 778 799	40 65 72 158 183 209 210 225 237 291 408 458 496 529 566 583 600 762 778	65 183 184 209 225 257 261 496 566 583 600 673 762 778	225 583 600		180 183 184 209 496 583 762	180 183 225 762	
Performance Primary Task: Position	65 95 109(1) 158 159 180 183 184 209 210 225 237 240 257 268 367 408	65 109(1) 158 183 209 210 225 237 240 268 367 408 458 496 566 583 600	65 183 184 209 225 240 257 261 496 566 583 600 673 762 778	225 583 600		95 180 183 184 209 240 496 583 762	180 183 225 762	

FAR-25 WORKLOAD FACTOR 4d: DURATION OF PHYSICAL

MEASURE	VALIDITY			RELIABILITY				APPLICA-BILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Perform-ance Primary Task: Position (cont'd)	458 496 566 583 600 615 669 673 762 778 799	762 778						
Perform-ance Primary Task: Event	40 158 159 180 183 184 209 210 225 237 257 268 291 408 458 496 583 600 615 673 762 778 799	40 158 183 209 210 225 237 268 291 408 458 496 583 600 762 778	183 184 209 225 257 496 583 600 673 762 778	225 583 600		180 183 184 209 496 583 762	180 183 225 762	

FAR-25 WORKLOAD FACTOR 4d: DURATION OF PHYSICAL

MEASURE	VALIDITY			RELIABILITY				APPLICA-BILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Perform-ance Normal Secondary Task: Time	109(2) 158 183 184 209 210 225 237 268 291 408 458 583 600 673 762 778	109(2) 158 183 209 210 225 237 268 291 408 458 583 600 762 778	183 184 209 225 583 600 673 762 778	225 583 600		183 184 209 583 762	183 225 762	
Perform-ance Normal Secondary Task: Position	158 183 184 209 210 225 237 268 408 458 496 583 600 673 762 778	158 183 209 210 225 237 268 408 458 496 583 600 762 778	183 184 209 225 496 583 600 673 762 778	225 583 600		183 184 209 496 583	183 225 762	
Perform-ance Normal Secondary Task: Event	158 183 184 209 210 225 237 268 291 408	158 183 209 210 225 237 268 291 408 458	183 184 209 225 496 583 600 673 762 778	225 583 600		183 184 209 496 583 762	183 225 762	

FAR-25 WORKLOAD FACTOR 4d: DURATION OF PHYSICAL

MEASURE	VALIDITY			RELIABILITY				APPLICA-BILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Perform-ance Normal Secondary Task: Event (cont'd)	458 496 583 600 673 762 778	496 583 600 762 778						
Perform-ance Artificial Secondary Task: Time	268 367 566 669 673	268 367 452 566	566 673					
Perform-ance Artificial Secondary Task: Position	566 673	452 566	566 673					
Perform-ance Artificial Secondary Task: Event	268 583 669 673	268 452 583	583 673			583		

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