

NASA REDUCED GRAVITY EDUCATION FLIGHT PROGRAM JOHNSON SPACE CENTER 2009 FLIGHT CAMPAIGN

TO: Flight Crew and Alternate Flight Crew Members (Students and Journalists)
RE: Medical Examination Requirements for Flight Crew Members – 2009 Flights

NASA/JSC requires that all prospective flight crew / alternate flight crew members / journalists participating in the NASA Reduced Gravity Student Flight Opportunities Program complete a medical examination performed by a FAA Certified Aviation Medical Examiner (AME) or Designated Military Flight Surgeon. The examination data is then reviewed by NASA's Physiological Training Office to determine an individual's "fitness for flight". Once they are physically qualified, individuals are eligible to participate in a Physiological Training course at JSC (which they will attend as part of their Houston experience).

A complete "Medical Examination Packet" is attached which includes:

- Letter of explanation addressed to the FAA Certified AME
- NASA/JSC Medical Examination Requirements
- Height and Weight Table / Common Omissions
- JSC Form 8500 Report of Medical Examination (Rev 8/00) two pages
 - Page 1 to be completed by applicant
 - Page 2 to be completed by FAA Certified AME

Remember to bring all of this with you when you go for your physical!

Each flight team member is responsible for the following:

- Locate a FAA Certified AME and make an appointment. Refer to dates and deadlines for the deadline for your flight week. The FAA website provides a Directory of AMEs at http://www.faa.gov/pilots/amelocator/.
- Read through this entire Medical Exam packet so you will be familiar with its contents and any additional medical exams (beyond the basic) that may apply to you.
- Make sure to print the <u>team's school</u> and <u>your full legal name</u> in top right corner on each page of the medical forms.
- Complete page one of the JSC 8500 (your medical history).
- Report to AME for medical exam. Don't forget to bring the letter to the AME, Medical Exam Requirements, Height and Weight Table / Common Omissions and JSC Form 8500.
- Pay all expenses associated with the medical exam.
- Check with the AME's office after the exam is completed to make sure that the report has been signed and forwarded to JSC by the deadline date. The AME's staff should fax the forms directly to the NASA Physiological Training Office.

Additional Notes:

- Female flight crew members should notify the AME if there is reason to suspect pregnancy.
- Flight crew members who have been previously certified as "qualified" to fly as part of this program MAY be exempt from the medical exam and / or physiological training requirement. Please provide the team member's full legal name and date of program participation to JSC's Program Coordinator for verification.
- Flight crew members who hold a pilot's license MAY be exempt from the Medical Exam requirement. A complete copy
 of the qualifying medical exam report, usually FAA Form 8500, MUST be provided to the JSC Physiological Training
 Officer for determination. A copy of the medical certificate or pilot's license is NOT required.

Direct questions concerning the NASA/JSC medical examination requirements for program participants to:

Physiological Training Officer Phone: 281-792-5724

email: jsc-htsgad@mail.nasa.gov

Fax: 281-792-5731



NASA REDUCED GRAVITY EDUCATION FLIGHT PROGRAM JOHNSON SPACE CENTER 2009 FLIGHT CAMPAIGN

May 12, 2008

Dear FAA Certified Aviation Medical Examiner / Designated Military Flight Surgeon:

The person who has given you this letter is a member of a university team that has been selected to fly a micro-gravity experiment aboard NASA's C-9 reduced gravity aircraft. NASA / JSC specifies that all prospective flyers must obtain a medical examination performed by a FAA Certified AME or Designated Military Flight Surgeon. **The examination, however, is not considered to be an official FAA exam; the results are for NASA use only.**

Attached to this letter, you should find:

- NASA/JSC Medical Examination Requirements
- Height and Weight Table / Common Omissions
- JSC Form 8500 Report of Medical Examination (Rev 8/00) two pages
 - Page 1 to be completed by applicant
 - Page 2 to be completed by AME

After the examination, please fax ONLY the signed and completed JSC Form 8500 (two pages) to:

NASA Johnson Space Center Human Test Support Group - Mail Code SD-37 Houston, Texas 77059 Attn: Physiological Training Officer

Fax: 281-792-5731

Please do not send EKGs, laboratory analyses, etc.

The NASA Physiological Training Office finds the following items **frequently omitted** on the JSC Form 8500, Report of Medical Examination. Before faxing the form, PLEASE ask your staff to ensure all items are completed, including:

Applicant's Height and Weight	Blocks 14 & 15
Date of EKG (for applicants age 35 and older)	Block 49
Results of EKG (normal, WNL, etc)	Block 50
AME's Comments on History and Findings from Item 12	Block 51
AME's Name, Signature, Serial Number & Phone Number	Block 54

Questions concerning any of the medical requirements contained herein should be directed to:

Physiological Training Officer Ph: 281-792-5724

email: jsc-htsgad@mail.nasa.gov

Thank you for helping NASA provide this outstanding educational experience to teachers and students. If you have any further questions, please don't hesitate to contact Ms. Sara Malloy, Program Coordinator at 281-483-7847.

With best regards, Sara Malloy Reduced Gravity Program Coordinator



MEDICAL EXAMINATION REQUIREMENTS NASA REDUCED GRAVITY EDUCATION FLIGHT PROGRAM 2009 Flight Campaign

EXAMINING PHYSICIAN: MUST be FAA Certified Aviation Medical Examiner (AME).

EXAM REQUIREMENTS: Applicant's Medical History and Physical Examination is reported on JSC Form 8500 (attached). This examination is NOT considered to be an official FAA exam. Medical results / opinions reported are for NASA use only. The Chief of the Medical Sciences Division at the Johnson Space Center serves as the final authority on the examinee's qualification for flight aboard the C-9 microgravity aircraft.

FAA GUIDE FOR AVIATION MEDICAL EXAMINERS

	Medical Standards – Effective September 16, 1996 - Third Class Medical Certificate
DISTANT VISION	20/40 or better in each eye separately, with or without correction.
NEAR VISION	20/40 or better in each eye separately (Snellen equivalent), with or without correction, as measured at 16 inches.
INTERMEDIATE VISION	No requirement.
COLOR VISION	Ability to perceive those colors necessary for safe performance of airman duties.
HEARING	Demonstrate hearing of an average conversational voice in a quiet room, using both ears at 6 feet, with the back turned to the examiner or pass one of the audiometric tests below (Speech Discrimiation or Pure Tone)
AUDIOLOGY	Audiometric Speech Discrimination Test (Whisper Test): Score at least 70% discrimination in one ear. Pure tone Audiometric Test: Unaided, with thresholds no worse than:
	500 Hz 1,000 Hz 2,000 Hz 3,000 Hz Better Ear 35 Db 30 Db 40 Db Worst Ear 35 Db 50 Db 50 Db 60 Db
ENT	No ear disease or condition manifested by, or that may reasonably be expected to be manifested by, vertigo or a disturbance of speech or equilibrium.
PULSE	No disqualifying per se. Used to determine cardiac system status and responsiveness.
BLOOD PRESSURE	No specified values stated in the standards. Hypertension covered under general medical standard and in the <i>Guide for Aviation Medical Examiners</i> .
EKG	Not routinely required for persons under the age of 35. Required at age 35 and within the past year for persons age 40 and over.
MENTAL	No diagnosis of psychosis, or bipolar disorder, or severe personality disorders.

MEDICAL EXAMINATION REQUIREMENTS HEIGHT / WEIGHT / COMMON OMISSIONS NASA REDUCED GRAVITY EDUCATION FLIGHT PROGRAM 2008 Flight Campaign

Body Mass Index (BMI) Table

<mark>Hei</mark> g	Height (inches) Weight (pounds)											C-9 Aircraft (under BMI 35)									
BMI	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35				
58	91	96	100	105	110	115	119	124	129	134	138	143	148	153	158	162	167				
59	94	99	104	109	114	119	124	128	133	138	143	148	153	158	163	168	173				
60	97	102	107	112	118	123	128	133	138	143	148	153	158	163	168	174	179				
61	100	106	111	116	122	127	132	137	143	148	153	158	164	169	174	180	185				
62	104	109	115	120	126	131	136	142	147	153	158	164	169	175	180	186	191				
63	107	113	118	124	130	135	141	146	152	158	163	169	175	180	186	191	197				
64	110	116	122	128	134	140	145	151	157	163	169	174	180	186	192	197	204				
65	114	120	126	132	138	144	150	156	162	168	174	180	186	192	198	204	210				
66	118	124	130	136	142	148	155	161	167	173	179	186	192	198	204	210	216				
67	121	127	134	140	146	153	159	166	172	178	185	191	198	204	211	217	223				
68	125	131	138	144	151	158	164	171	177	184	190	197	203	210	216	223	230				
69	128	135	142	149	155	162	169	176	182	189	196	203	209	216	223	230	236				
70	132	139	146	153	160	167	174	181	188	195	202	209	216	222	229	236	243				
71	136	143	150	157	165	172	179	186	193	200	208	215	222	229	236	243	250				
72	140	147	154	162	169	177	184	191	199	206	213	221	228	235	242	250	258				
73	144	151	159	166	174	182	189	197	204	212	219	227	235	242	250	257	265				
74	148	155	163	171	179	186	194	202	210	218	225	233	241	249	256	264	272				
75	152	160	168	176	184	192	200	208	216	224	232	240	248	256	264	272	279				



NASA REDUCED GRAVITY EDUCATION FLIGHT PROGRAM JOHNSON SPACE CENTER 2009 FLIGHT CAMPAIGN

COMMON OMISSIONS

The NASA Physiological Training Office frequently finds the following items commonly omitted on the JSC Form 8500, Report of Medical Examination. Before faxing the forms, please check to make sure all items are completed, including:

Applicant's Height and Weight	Blocks 14 & 15
Date of EKG (for applicants age 35 or older)	Block 49
Results of EKG (normal, WNL, etc)	Block 50
AME's Comments on History and Findings from Item 12	Block 51
AME's Name, Signature, Serial Number & Phone Number	Block 54

RGSFOP	SCHOOL	FULL LEGAL NAME

JSC FORM 8500 - REPORT OF MEDICAL EXAMINATION - PAGE 1 of 2 $\,$

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	APPLICA SSFOP	TION	FOR	2. LAST NAME				FIRST NAME	·		MIDD	LE NA	ME		
3.8	SSN			4. STREET ADDRE	ESS		(CITY	STAT	PHONE #					
5.1	OOB (M/D	/Y)	6. SEX	7. HAIR COLOR	8. EY	E COLO	R 9	. STUDENT FACULTY JOURNALIST	I.		10.	10. SCHOOL OR EMPLOYER			
11.	DO YOU	J CURI	RENTLY U	JSE ANY MEDICATION	N (presc	ription or no	n-prescrip	tion)? YES NO If yes, list name,	, purpose dos	sage &	frequency	of use belo	w. Attach additional sheet if needed.		
12.				ve you EVER HAD, or do approximate date of occur				ne following conditions? Answer "YES" for provided below.	for every c	ondit	ion you h	ave ever l	had in your life.		
	YES	NO	COND	ITION		YES	NO	CONDITION			YES	NO	CONDITION		
A			FREQU HEAD	ENT OR SEVERE ACHES	I			STOMACH, LIVER OR INTEST TROUBLE	INAL	Q			MOTION SICKNESSS REQUIRING MEDICATION		
В			DIZZIN SPELLS	ESS OR FAINTING	J			KIDNEY STONE OR BLOOD IN URINE	1	R			MILITARY MEDICAL DISCHARGE		
С			UNCON ANY R	NSCIOUSNESS FOR EASON	K			DIABETES		S			MEDICAL REJECTION BY MILITARY SERVICE		
D				R VISION TROUBLE PT GLASSES)	L			NEUROLOGICAL DISORDERS: EPILEPSY, SEIZURES, STROKE PARALYSIS, ETC.		Т			REJECTION FOR LIFE OR HEALTH INSURANCE		
Е			HAY FI	EVER OR ALLERGY	М			MENTAL DISCORDERS OF AN SORT: DEPRESSION, ANXIETY ETC.		U			ADMISSION TO HOSPITAL		
F			ASTHM	1A OR LUNG DISEASE	E N			SUBSTANCE DEPENDENCE OF FAILED DRUG TEST (EVER), O SUBSTANCE ABUSE OR USE O ILLEGAL SUBSTANCE IN THE LAST FIVE YEARS.	OR OF	v			OTHER ILLNESS, DISABILITY OR SURGERY.		
G			HEART TROUE	OR VASCULAR BLE	О			ALCOHOL DEPENDENCE OR ABUSE							
Н			HIGH C	OR LOW BLOOD URE	P			SUICIDE ATTEMPT							
EX	PLANAT	IONS:	If you answ	vered "yes" to any of the ab	oove item	s, describe	the con	dition and the approximate date of occurre	ence. Use	addit	ional page	e if necess	sary.		
13.	HAVE Y	OU VI	SITED A 1	HEALTH PROFESSIO	NAL W	ITHIN T	HE LA	ST 3 YEARS? YES (LIST BELO	ow) 🔲 N	O					
DA	TE	NAM	E, ADDRI	ESS & TYPE OF HEAL	TH PRO	FESSION	IAL		REASC	N F	OR VISI	Γ			
													by any trick, scheme or device, a material fact;		
		_	PPLICAN		presentat	ions or ent	ry, may	pe fined up to \$250,000 or imprisoned for	not more	than (3 years, or	DATE	8 U.S. Code Sections 1001; 3571).		

JSC FORM 8500 / STUDENT CAMPAIGNS / REV 12/01

RGSFOP	SCHOOL	FULL LEGAL NAME

JSC FORM 8500 - REPORT OF MEDICAL EXAMINATION - PAGE 2 OF 2

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17. NOSE	E						etc) 29. ABDOMEN & VISCERA (including hernia)										
18. SINUSES											ia)						
19. MOU	TH AND THE		30. ANUS (not including digital exam) 31. SKIN														
	20. EARS, GENERAL (internal & external canals;							32. G-U SYSTEM (not including pelvic exam)									
hearing under item #40) 21. EAR DRUMS (perforation)							33. UPPER AND LOWER EXTREMETIES (strength/range of motion)										
	2. EYES, GENERAL (vision under items #41-45)						34. SPINE, O			`	<u>g</u> , ruge	or motion)					
	THALMOSOP						35. identify		MARKS (Scars, Tat	toos) (size	& location	1)				
	LS (equality						36. LYMPHA			****							
nystagm		ry (assoc p	parallel movemen	t,			37. NEUROLO			es, equilit	orium, sens	es, cranial,					
	GS & CHEST	(excluding	g breasts)				38. PSYCHIA			ehavior,	nood, com	munication	١,				
							memory)										
27. HEAR murmur		al activity,	rhythm, sounds,				39. GENERA	L SYSTEMI	С								
	,	e any aho	ve items check	ed "abnormal" in	detail F	nter iten	number l	nefore ea	ch comm	nent He	addition	al cheet if	neces	carv			
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