MIA08MA203

ATTACHMENT 16

RISK ASSESSMENT MATRIX

APPENDIX D

RISK ASSESSMENT MATRIX

RISK HAZARD LEVELS: ROUTINE -R NOT AUTHORIZED BY DIV SOP -N/A
LOW - L
MEDIUM - M
HIGH - H

MISSION RISK	DAY	NIGHT
SCENE MEDEVAC	R	L
INNER HOSPITAL	R	L
SEARCH	R	L
VIP / FLY OVER	R	L
EMER PROCEDURES	L	L
INSTRUMENT TRNG	R	L
PHOTO FLIGHT	R	L
CHASE / PURSUIT	L	M
HOIST / HEAT TM	L	M
FORMATION FLIGHT	L	N/A
POST MAINTENANCE	L	N/A

AIRCRAFT	FULL SYSTEM	PARTIAL SYSTEM	NO INSTRUMENTS
MEL STATUS	R	L	M

WX CEILING	1000 FT or >	800 FT or > but < 1000 FT	600 FT or > but < 800 FT
DAY	R	R	L
NIGHT	L	L	N/A

RISK ASSESSMENT MATRIX

WX VISIBILITY	3 MILES OR >	= or > 2 MILES but < 3 MILES	= or > 1 MILE but < 2 MILES
DAY w/CEILING = or > 1000 FT	R	R	N/A
DAY w/CEILING < 1000 FT but = or > 600 FT	L	L	N/A
NIGHT w/CEILING = or > 1000 FT	L	N/A	
NIGHT W/CEILING < 1000 FT but = or > 800 FT	L	N/A	

WEATHER FACTORS	RISK
THUNDER STORMS IN AREA	M
DEW PT / TEMP SPREAD 2 C OR <	M
TEMPERATURE > +30 C	L
VIS MOISTURE & TEMP +4 TO +1 C	M (ICING RISK)
VIS MOISTURE & TEMP 0 TO -4 C	H (ICING RISK)
SNOW & TEMP -5 C & BELOW	M (ICING RISK)

TERRAIN	RISK
OVER FLAT LAND	R
OVER WATER	L
OVER WATER (WINTER TIME)	M
MOUNTAINS	L
CREW UNFAMILIAR WITH AREA	L

TAKEOFF or LANDING	WINDS	RISK
HEAD WIND	5 KTS OR <	R
CROSS OR TAIL WIND	5 KTS OR <	L
HEAD WIND	6 - 10 KTS	R
CROSS OR TAIL WIND	6 - 10 KTS	M
HEAD WIND	11 - 15 KTS	R
CROSS OR TAIL WIND	11 - 15 KTS	H
HEAD WIND	16 - 30 KTS	L
HEAD WIND	> 30 KTS	M
HEAD WIND GUST SPREAD	> 15 KTS	M
CROSS OR TAIL WIND GUST SPREAD	> 15 KTS	H

LANDING ZONE SIZE	OBSTACLE RISK UP TO 1 FT HT	OBSTACLE RISK 1 TO 5 FT HT	OBSTACLE RISK > 5 FT HT
INSIDE 18 FT DIA BOUNDARY	H	H	H
18 - 60 FT DIA BOUNDARY	L	H	H
60 - 80 FT DIA BOUNDARY	R	L	H
OUTSIDE 80 FT DIA BOUNDARY	R	R	L

MISSION ALTITUDES (Other than T/O, Land, Hovering or D.C. River Routes)	RISK
Enroute or Search 1000 - 1500 AGL	R (Obstructions charted & marked)
Enroute or Search 500 - 1000 AGL	L (Obstructions charted & marked)
Search Only 300 - 500 AGL	M (Obstructions may not be charted/marked)
Less than 300 AGL	H (Obstructions/wires **NOT** normally charted or marked)

CREW REST 24 HRS PRIOR TO SHIFT	RISK
8 HRS +	R
7 - 6 HRS	L
5 - 4 HRS	M
LESS THAN 4 HRS	H

PILOT PROFICIENCY	RISK
LAST FLT 15 DAYS OR LESS	R
LAST FLT OVER 15 DAYS	L
GREATER THAN 30 DAYS	FLIGHT WITH INSTRUCTOR REQUIRED

# HRS FLOWN DURING SHIFT SINGLE PILOT	RISK
1 - 2 HRS	R
3 - 4 HRS	L
5 - 6 HRS	M
MORE THAN 6 HRS	H

HUMAN FACTORS	ADEQUATE NORMAL STRESS	MARGINAL ABOVE NORMAL STRESS	SUSPECT HIGH STRESS INDICATORS
WELLNESS	R	L	M
NONFLYING DUTIES ON SHIFT	R	L	M
PERSONAL / FAMILY	R	L	M

THE OVERALL RISK ASSESSMENT AUTOMATICALLY ASSUMES THE HIGHEST RISK FACTOR ASSIGNED TO ANY SUBCATEGORY.

LOW RISK FACTORS IN MULTIPLE CAN INCREASE OVERALL RISK FACTOR TO MEDIUM.

MEDIUM RISK FACTORS IN MULTIPLE CAN INCREASE OVERALL RISK FACTOR TO HIGH.

DO NOT FLY OR ATTEMPT IF RISK FACTOR IS HIGH (H)

THIS MATRIX IS DESIGNED AS A MENTAL GUIDE THAT IS UPDATED PRIOR TO FLIGHT, DURING FLIGHT AND THROUGHOUT THE SHIFT.