2010 HELICOPTER SAFETY ADVISORY CONFERENCE (HSAC) GULF OF MEXICO OFFSHORE HELICOPTER OPERATIONS AND SAFETY REVIEW

HSAC Members: March 1, 2011

Please find attached the Helicopter Safety Advisory Conference (HSAC) "2010 Gulf of Mexico (GoM) Offshore Helicopter Operations and Safety Review". The membership support and response from 12 helicopter operators for this review is not only appreciated, but vital in establishing a meaningful report.2010 was the first year since HSAC began keeping statistics in 1984 that the GoM has recorded zero accidents. There was also a slight decline in overall flying activity to the lowest levels recorded which may have in part been attributed to the oil spill event and the reduction in deep water activity. The average number of accidents per year in the GoM since 1984 has been 11.7 per year with the last 10 years averaging 7 per year, with 0* for 2010. The 2010 GoM oil industry helicopter accident rate per 100,000 flight hours was 0.00 with a total of 0 accidents compared to a 27year annual average accident rate of 1.66. The fatal accident rate per 100,000 flight hours during 2010 was 0.00 with no fatal accidents compared to a 27-year average of 0.52.*Note -There were three (3) ditchings in 2010 -> 2 due to loss of power and 1 due to tail rotor malfunction that were not recorded as accidents. Had these been classified as accidents by the NTSB, the accident rate would have been 0.90 per 100k hours and 0.32 per 100k flights. In the last 5 years, there have been 23 accidents of which 4 were fatal (17%), resulting in 18 fatalities and 14 injuries. The leading causes, not all inclusive, of the accidents since 1999 have been:

- 19 engine related,
- 15 loss of control or improper procedures,
- 15 helideck obstacle strikes,
- 10 controlled flight into terrain, and
- 11 other technical failures.

HSAC has published a number of Recommended Practices to address these issues and they can be reviewed at www.HSAC.org. We are optimistic that by widely and openly sharing this information with all operators and other oil industry groups that additional safety initiatives may be developed and implemented to further reduce accidents and incidents with an ultimate goal of zero events.

Bob Williams Industry Liaison Committee Member

GULF OF MEXICO OFFSHORE HELICOPTER OPERATIONAL DATA SUMMARY

YEA	NUMBE	ERS by	TYPE H	ELICO	PTER				
R	SINGL	LIGH	MEDIU	HEAV	TOTA		HOUR		
	E	Т	M	Y	L	PASSENGE	S		
	ENGIN	TWIN	TWIN	TWIN	FLEE	RS	FLOW	NUMBEROF	FLIG
	E				${f T}$	CARRIED	N	HTS	

2006	367	59	124	25	584	2,762,317	406,564	1,246,172
2007	387	61	123	35	606			1,294,141
2008	365	49	107	30	551	2,936,772	410,321	1,245,770
2009	312	41	103	39	495	2477,834	344,817	1,195,667
2010*	314	43	103	23	483	2,330,527	334,067	938,690

^{*} Data extracted from voluntary input of 12 helicopter operators in the Gulf of Mexico

GULF OF MEXICO OFFSHORE HELICOPTER OPERATIONAL DATA DETAILS

HOU	RS by TY	PE HE	LICOPT	ER		OPERA'	TIONS	by TYPE	HELIC	OPTER
YEA R	SINGL E ENGIN E	T	MEDIU M TWIN	HEAV Y TWIN	TOTA L FLEE T	E	LIGH T TWIN	MEDIU M TWIN	HEAV Y TWIN)	TOTAL FLEET
2006	283,304	25,118	79,207	18,935	406,56 4	984,612	78,074	153,822	32,059	1,246,17 2
2007	280,683	27,617	81,895	20,602	410,79 7	1,019,61 1	90,109	153,402	31,019	1,294,14 1
2008	282,958	25,939	79,291	22,133	410,32 1	976,611	82,233	152,235	34,691	1,245,77 0
2009	240,507	23,878	62,195	18,237	344,81 7	957,756	87,771	117,438	32,702	1,195,66 7
2010	226,379	25,941	66,096	15,651	334,06 7	699,968	86,331	125,112	27,279	938,690

GULF OF MEXICO HELICOPTER FLEET OPERATIONAL DATA

Averages Per Helicopter	2008	2009	2010	Averages Per Helicopter	2008	2009	2010
Passengers per Day per 5 Day Week	11,295	9,530	8,964	Annual Hours Per Aircraft	745	697	692
Flights Per Day	3,413	3,276	2,572	Flights Per Aircraft	2,261	2,415	1,941
Average Flight Duration in Min.	20	17	21	Passengers Flown Per Year	5,330	5,006	4,825

As a service to the Helicopter Safety Advisory Conference (HSAC) membership, this Gulf of Mexico Offshore Helicopter Statistical Report is compiled annually from information submitted voluntarily by the membership and helicopter operators. The information is neither verified nor reviewed for accuracy and should be treated as unofficial. The data is believed to be representative; however, the HSAC assumes no liability for accuracy or completeness.

2010 GULF OF MEXICO OFFSHORE HELCOPTER ACCIDENT DATA

	BER OF DENTS				URY ASSI	FICAT	ION		AIRCRAFT DAMAGES	AVIATION ACCIDENT				
Aircra	ft Cate	gory	.]	Injuries Severity				(Classification	Rates				
JI	# Acciden ts	# Fat al	# Eng Relate	Pa	Cre	Injure	Fatal	Mir	Substanti	al	# Acc 100k		# Fatal 1 M	# Acc 100k
			d	X	w	d		or	al				Occupan	
Single Eng.	0*	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00
Light Twin	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00
Med. Twin	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00
Heav y Twin	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00
2010 Totals	0*	0	0*	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00
2009 Totals	8	1	1	7	4	3	11	2	4	2	2.23	0.29	2.09	0.67

^{*} Note - There was one additional ditching in 2009 due to loss of power that was not recorded as an accident.

2010 GULF OF MEXICO OFFSHORE HELICOPTER ACCIDENT CAUSES/INFO

1		er	do wn Pro	Impro	se Car go	_	Mg mt	Strike Helide	Oth	l Qu	Weat her non- CFIT	k	Cont rol or HLO Proce d.	ck Desig n or	Engin e
	Tech l	nica	Pilo	t Proced	lure 1	Related									
Sing le Eng	0*	0*	0	0	0	0	0	0	0	0	0	0	0	0	0

Lig ht Twi n	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Me d. Twi n	0	0	0	0	0	0	0	0	0	0	0	0		0	0
Hvy Twi n	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
201 0	0 *	0*	0	0	0	0	0	0	0	0	0	0	0	0	0
99- 09 Ttls	19	11	2	15	4	10	5	15	1	4	2	7	4	9	6

FIVE YEAR GULF OF MEXICO OFFSHORE HELICOPTER ACCIDENT DATA Injuries

Num Accid	ber Of lents		I	njury Cl	assifi	ication		ircra: amag		A	Aviation Accident				
Aircr v	aft (Categ	gor S	Severity Classificati				Rate							
Year	# Accide nts		# En Rela ed	_	Cre w	-		Min or	Substant ial	al	Acc 100 k Hrs	Fat	1 M Occupa nts	# Acc 100k Flt Stag es	
2006	6	1	1	4	3	5	2	1	1		1.48			0.48	
2007	7	2	0	4	5	6	3	0	5	2	1.70	0.4 9	1.02	0.54	
2008	2	1	0	4	1	0	5	1	0	1	0.49	0.2 4	1.14	0.16	
2009	8	1	1	7	4	3	8	2	4	2	2.32	0.2 9	2.09	0.67	
2010	0*	0	0*	0	0	0	0	0	0	U*	0.00 *	0	0.00	0.00 *	
5 Yr. Avg.	4.6	1.0	2.8	3.8	2.6	2.8	3.6	0.8	2.0	1.8	1.20	0.2 5	0.95	0.37	

^{*}Note - There were three (3) ditchings in 2010 -> 2 due to loss of power and 1 due to tail rotor

malfunction that were not recorded as accidents. Had these been classified as accidents by the NTSB, the accident rate would have been 0.90 per 100k hours and 0.32 per 100k flights.

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