

2000

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

Gentlemen: April 18, 2001

Please find attached the Helicopter Safety Advisory Conference (HSAC) "2000 Gulf of Mexico Offshore Helicopter Operations and Safety Review". The membership support and response from 21 helicopter operators for this review is not only appreciated, but vital in establishing a meaningful report. Continued support is encouraged for the future.

The 2000 Gulf of Mexico oil industry helicopter accident rates per 100,000 hours was 2.04 with 9 accidents (all single engine) compared to the 16-year average of 6.9 accidents. The U.S. accident rates per 100,000 hours for all commercial helicopter operations was 3.76 and the fatal rate was 0.70, while the HSAC rates were 2.04 and 0.68 respectively. There were 3 fatal accidents with 3 fatalities (one caused by flight into water at night, one engine failure with apparent inability to maintain rotor RPM, and one remaining cause unknown).

In the last 4 years there have been 27 accidents resulting in 5 fatal accidents (18% fatal) with 6 fatalities. The leading causes of accidents have been 6 engine related (22%), 5 (18%) flight into terrain, water or obstacles, and 5 (18%) tail rotor malfunction with 5 accidents each (18%). Technical faults have accounted for 11 (40%) of these accidents. We are optimistic that by sharing this information with all operators and other oil industry group's safety initiatives may be developed to reduce accidents.

Bob Williams
Industry Liaison Committee Member

GULF OF MEXICO OFFSHORE HELICOPTER OPERATIONAL DATA SUMMARY

YEA	NUMBERS by TYPE HELICOPTER					HOUR				
R	SINGL	LIGH	MEDIU	HEAV	TOTA	PASSENGE	S	FLOW	NUMBEROF	FLIGH
	ENGIN	TWIN	TWIN	TWIN	FLEE	RS	FLOW	NUMBEROF	FLIGH	
	E				T	CARRIED	N	TS		
1996	321	102	117	0	540	3,579,345	441,797	1,668,401		
1997	380	114	131	11	636	3,759,642	471,513	1,705,629		
1998	392	89	94	13	588	2,725,682	454,280	1,390,773		
1999	413	81	93	14	601	2,664,848	392,712	1,459,781		
2000*	385	76	106	15	582	3,451,511	441,908	1,394,679		

* Data extracted from voluntary input of 21 helicopter operators in the Gulf of Mexico

GULF OF MEXICO OFFSHORE HELICOPTER OPERATIONAL DATA DETAILS

HOURS by TYPE HELICOPTER						OPERATIONS by TYPE HELICOPTER				
YEA R	SINGL E ENGIN E	LIGH T TWIN	MEDIU M TWIN	HEAV Y TWIN	TOTA L FLEE T	SINGL E ENGIN E	LIGH T TWIN	MEDIU M TWIN	HEAV Y TWIN)	TOTAL FLEET
1997*	288,443	69,142	109,631	4,297	471,513	1,113,151	249,595	320,023	22,860	1,705,629
1998	303,434	54,509	88,470	7,867	454,280	1,025,105	183,133	167,255	15,280	1,390,773
1999	316,029	38,126	79,736	8,016	441,908	1,051,160	134,035	192,289	17,197	1,394,679
2000	316,029	38,126	79,736	8,016	441,908	1,051,160	134,035	192,289	17,197	1,394,679

* Detailed data for helicopter types not available prior to 1997

GULF OF MEXICO HELICOPTER FLEET OPERATIONAL DATA

Averages Per Helicopter	1998	1999	2000	Averages Per Helicopter	1998	1999	2000
Passengers per Day per 5 Day Week	10,483	10,249	13,275	Annual Hours Per Aircraft	773	653	760
Flights Per Day	3,810	3,999	3,821	Flights Per Aircraft	2,365	2,429	2,399
Average Flight Duration in Min.	20	16	19	Passengers Flown Per Year	4,636	4,434	5,936

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.

Dedicated to Safety Through Cooperation Since 1978

2000 GULF OF MEXICO OFFSHORE HELICOPTER ACCIDENT DATA

NUMBER OF ACCIDENTS				INJURY CLASSIFICATION				AIRCRAFT DAMAGES		AVIATION ACCIDENT			
Aircraft Category				Injuries		Severity		Classification		Rates			
Type	#	#	#					Tot	#	#	#	#	
Aircra ft	Acciden ts	Fat al	Eng				Fatal	al	Acc	Fatal	Fatal	1	Acc
									100k	Acc	M		100k

Twinn													
2000 Totals	2	0	0	1 <i>(Night SE)</i>	1	3	0	1	1	0	0	0	1
97-99 Totals	4	1	1	4	0	2	2	1	1	1	2	0	0

FIVE YEAR GULF OF MEXICO OFFSHORE HELICOPTER ACCIDENT DATA Injuries

Number Of Accidents		Injury Classification					Aircraft Damages			Aviation Accident				
Aircraft Category		Severity	Classification			Rates								
Year	# Accidents	# Fatal	# Eng Related	Pax	Cre w	Injured	Fatal	Minor	Substantial	Total Losses	# Acc 100k Hrs	# Fatal 100k Hrs	# Fatal 1 M Occupants	# Acc 100k Flt Stages
1996	7	4	NR	7	4	0	11	1	2	4	1.58	0.91	0.19E	0.42
1997	6	1	1	6	6	11	1	1	2	4	1.27	0.21	0.20	0.35
1998	3	1	1	0	2	1	1	0	1	3	0.66	0.22	0.23	0.22
1999	9	1	2	7	4	9	2	2	2	5	2.29	0.25	0.47	0.62
2000	9	3	2	3	8	8	2	0	1	8	2.04	0.68	0.40	0.65
5 Yr. Avg.	7.0	1.4	1	4.8	4.6	7.8	1.6	1.2	1.6	4.6	1.61	0.32	0.32	0.48

NR = Not Reported

E = Estimated