



2022 HELICOPTER SAFETY ADVISORY CONFERENCE (HSAC) GULF OF MEXICO OFFSHORE HELICOPTER OPERATIONS AND SAFETY REVIEW

February 28, 2023

HSAC Members:

Please find attached the Helicopter Safety Advisory Conference (HSAC) "2022 Gulf of Mexico (GoM) Offshore Helicopter Operations and Safety Review". The membership support and response from six (6) helicopter operators for this review is not only appreciated but is vital in establishing a meaningful report. Thank you for your prompt responses and continued support.

The level of annual flying activity for 2022 increased slightly across the categories of fleet size, passengers carried, hours flown, and landing / takeoffs compared to 2021. This is the second consecutive year with an increase in flight activity demonstrating a continued recovery from the pandemic. While there continues to be challenges related to the pandemic, it is welcome news to see the increase in flight activity.

Unfortunately, there were five (5) accidents during the year. Even more unfortunately, was that three (3) of those accidents resulted in seven (7) fatalities. This caused the five (5) year average accident rate to increase to 3.38 and the fatal accident rate increased to 2.03 per 100,000 flight hours. This is obviously a trend in the wrong direction and a grim reminder of the unforgiving nature of the offshore helicopter industry. It is paramount to take every opportunity to pause, reflect, assess, train, and to make changes to improve our Gulf of Mexico operations.

The leading causes, not all inclusive, of the accidents since 1999 are listed below, and secondary causes of these events include 15 related to helideck size or design related issues.

- 21 engine related,
- 27 loss of control or improper procedures,
- 21 helideck obstacle strikes,
- 13 controlled flight into terrain, and
- 14 other technical failures

HSAC has published several 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.

Again, thank you for your prompt responses and continued support. It is your hard work and leadership that drive safety improvements in this industry.

Respectfully,

Terry Duprie

HELICOPTER SAFETY ADVISORY CONFERENCE (HSAC) 2022 GULF OF MEXICO OFFSHORE HELICOPTER OPERATIONS AND SAFETY REVIEW



GULF OF MEXICO OFFSHORE HELICOPTER OPERATIONAL DATA SUMMARY

Year	Numbers by Type Helicopter					Passengers Carried	Hours Flown	Number of Flights
	Single Engine	Light Twin	Medium Twin	Heavy Twin	Total Fleet			
2018	176	25	97	38	336	1,234,195	182,338	435,528
2019	142	20	83	31	276	1,138,433	163,286	411,308
2020	120	18	67	29	234	788,242	119,195	275,579
2021	95	15	55	32	197	968,887	127,234	289,375
2022	103	13	66	30	212	1,140,458	147,794	302,723

GULF OF MEXICO OFFSHORE HELICOPTER OPERATIONAL DATA DETAILS

Year	Hours by Type Helicopter					Operations (Takeoff/Landings) by Type Helicopter				
	Single Engine	Light Twin	Medium Twin	Heavy Twin	Total Fleet	Single Engine	Light Twin	Medium Twin	Heavy Twin	Total Fleet
2018	109,647	7,186	41,096	24,409	182,337	315,592	18,045	64,644	37,247	435,528
2019	92,093	5,852	42,441	22,900	163,286	297,387	13,255	66,697	33,969	411,308
2020	64,864	4,838	29,777	19,716	119,195	191,738	8,112	44,875	30,854	275,579
2021	70,578	4,412	30,744	21,500	127,234	203,444	6,234	45,724	33,973	289,375
2022	86,883	3,226	34,886	22,819	147,794	204,722	5,549	54,067	38,385	302,723

GULF OF MEXICO HELICOPTER FLEET OPERATIONAL DATA

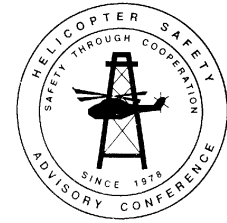
Averages Per Helicopter	2020	2021	2022
Passengers per Day per 5 Day Week	3,032	3,703	4,386
Flights Per Day	755	793	829
Average Flight Duration in Min.	26	26	29

Averages Per Helicopter	2020	2021	2022
Annual Hours Per Aircraft	509	646	697
Flights Per Aircraft	1,178	1,469	1,428
Passengers Flown Per Aircraft	3,369	4,888	5,380

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.

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HSAC 2022 GULF OF MEXICO OFFSHORE HELICOPTER OPERATIONS AND SAFETY REVIEW



GULF OF MEXICO OFFSHORE HELICOPTER ACCIDENT DATA

Number of Accidents Aircraft Category				Injury Classification				Aircraft Damages Classification			Aviation Accident Rates			
				Occupant Type		Severity					# Acc 100k Hours	# Fatal Acc 100k Hours	# Fatal 1 M Occupants	# Acc 100k Flt Stages
Type Aircraft	# Accidents	# Fatal	# Eng. Related	Pax	Crew	Injured	Fatal	Minor	Substantial	Total Loss	# Acc 100k Hours	# Fatal Acc 100k Hours	# Fatal 1 M Occupants	# Acc 100k Flt Stages
Single Eng.	4	3	0	8	4	5	7	0	1	3	-----	-----	-----	-----
Light Twin	0	0	0	0	0	0	0	0	0	0	-----	-----	-----	-----
Med. Twin	1	0	0	4	3	0	0	0	1	0	-----	-----	-----	-----
Heavy Twin	0	0	0	0	0	0	0	0	0	0	-----	-----	-----	-----
2022 Totals	5	3	0	12	7	5	7	0	2	3	3.38	2.03	4.56	1.65

GULF OF MEXICO OFFSHORE HELICOPTER ACCIDENT CAUSES/INFO

Type Aircraft	Technical		Pilot Procedure Related							Other				Misc	
	Power Loss, Multi- cause	Other	Tie- down Proc.	Loss Control or Improper Proced.	Loose Cargo	Flight Into Terrain, Water (CFITW)	Fuel Mgmt	Obstacle Strike		Fuel Qual	Weather Non-CFIT	U N K	Pax Control or HLO Proced.	Helideck Design or Size Issues	Fatalities Due to Engine Malf.
								Helideck	Other						
Single Eng.	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Light Twin	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Med. Twin	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hvy Twin	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1999-2022 Totals	21	14	4	27	6	13	6	21	2	4	3	7	4	11	6

FIVE YEAR GULF OF MEXICO OFFSHORE HELICOPTER ACCIDENT DATA

Number of Accidents Aircraft Category				Injury Classification				Aircraft Damages Classification			Aviation Accident Rates			
				Occupant Type		Severity					# Acc 100k Hrs	# Fatal Acc 100k Hrs	# Fatal 1 M Occupants	# Acc 100k Flt Stages
Year	# Accidents	# Fatal	# Eng. Related	Pax	Crew	Injured	Fatal	Minor	Substantial	Total Loss	# Acc 100k Hrs	# Fatal Acc 100k Hrs	# Fatal 1 M Occupants	# Acc 100k Flt Stages
2018	1	0	0	0	0	0	0	0	1	0	0.55	0.00	0.00	0.23
2019	2	2	0	2	2	0	4	0	0	2	1.22	1.22	2.42	0.49
2020	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00
2021	1	0	0	0	0	0	0	0	1	0	0.79	0.00	0.00	0.35
2022	5	3	0	12	7	5	7	0	1	4	3.38	2.03	4.56	1.65
5 Yr. Avg.	1.8	1.0	0	2.8	1.8	1.0	2.2	0.0	0.6	1.2	1.2	0.65	1.39	0.54