



Operacionalização de SMS em pequenos e médios operadores aéreos

Rafael Ramos – Safety & Quality Manager –
CHC do Brasil Táxi Aéreo S.A

CONFIDENTIAL



CHC do Brasil Táxi Aéreo S.A

DEZ 2022



CHC

CHC Helicopter



75
YEARS
1947-2022



Our Purpose

Providing unmatched helicopter services that enable our customers to reach beyond – often in remote and challenging destinations that limit others – and come home safely.

We are dedicated to getting our customers where they need to be, when they need to be there, anywhere in the world – safely and reliably.

Core Values



SIMPLICITY

Finding the most efficient way in everything we do.



AGILITY

Moving quickly and decisively.



COLLABORATION

Working together with candor and transparency.



INNOVATION

Creating solutions and leading change.



OWNERSHIP

Working with passion and doing what needs to be done.

Business Offerings



Oil and Gas Transport

- We proudly serve the world's largest companies and provide transportation on and offshore.
- We support offshore renewable energy projects.



Search and Rescue

- We provide long-term search and rescue contracts to government agencies and oil and gas companies around the world.



Emergency Medical Services

- Highly specialized medevac helicopters and aircrews with specialized training are ever-ready to provide immediate response.
- Our crews can be ready to roll within 30 minutes, anywhere in the world.



Maintenance, Repair & Overhaul

- Through Heli-One, our MRO segment, we are the world's largest independent provider of helicopter support services.
- We are capable of working with Sikorsky, Airbus, Leonardo and Bell aircraft for both CHC and third-party customers.

Our Clients

Our clients are a mix of the top Oil and Gas companies in the world for both transport services and exploration and production, as well as government agencies who contract us for SAR and EMS services.

Oil and Gas

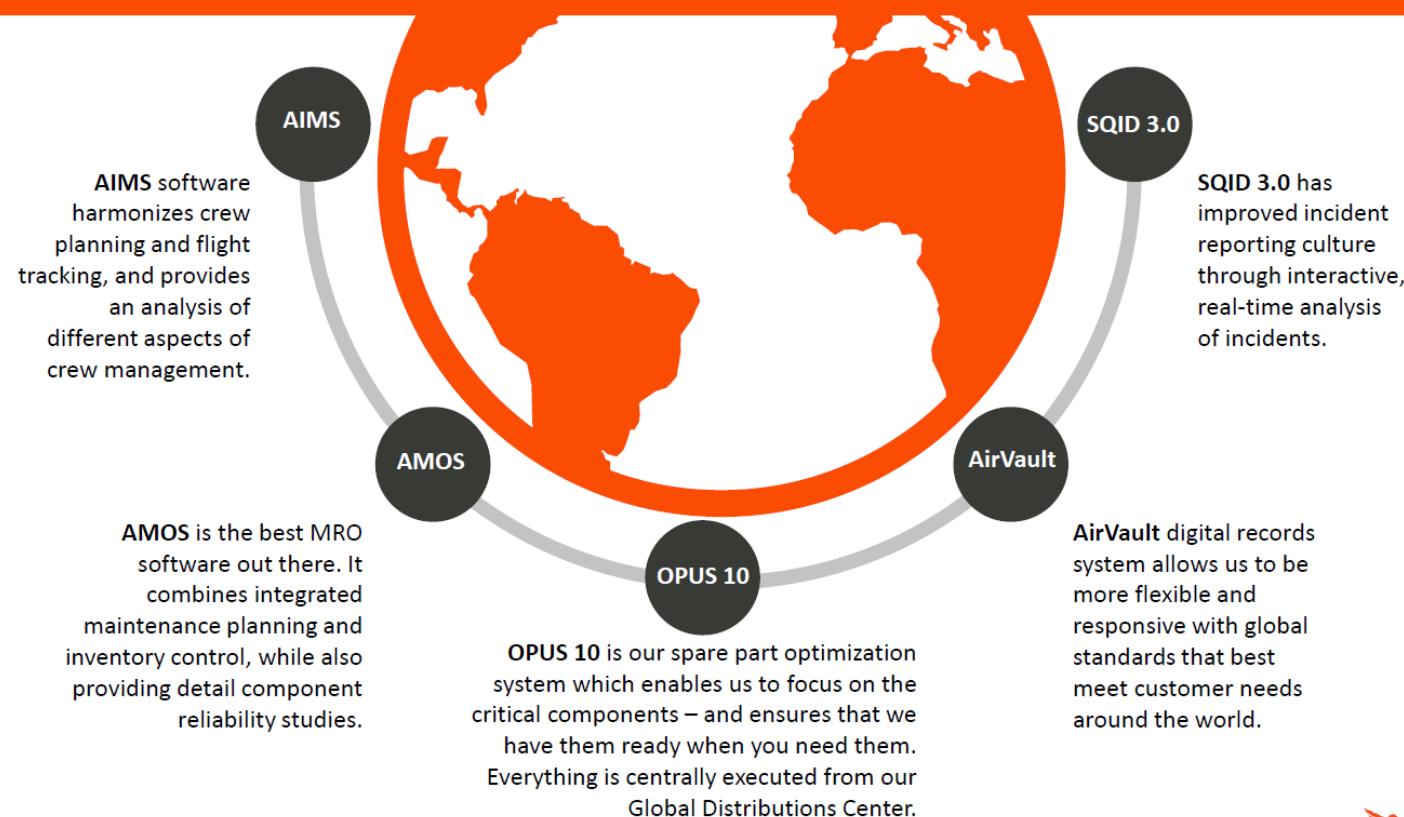


Government SAR/EMS



Standardized Global Systems

Our standardized global systems help ensure improved safety, cost efficiency and increased availability world wide.





HeliOffshore

- HeliOffshore is a global safety partnership that is dedicated to improving offshore helicopter safety around the world.
- CHC was a founding member, along with Avincis, Bristow Group, Era and PHI.
- The organization uses cross-industry cooperation to enhance safety by sharing best practices, developing and applying advanced technology and encouraging global flight standards.
- Areas of priority for HeliOffshore include:
 - Automation
 - Pilot monitoring
 - Accident survivability
 - Application health and usage monitoring system (HUMS)



HeliOffshore
Safety Through Collaboration

How CHC Takes Care

Taking Care

Our integrated Safety Management System (SMS) gives every team member the authority to identify, report, and correct unsafe practices and procedures. Tenured



We continually analyze our performance to find ways to improve safety.



Each member of our team is a stakeholder in the safety of people, property, and the environments in which we operate.

Our robust safety systems inform and enhance our global standards, helping us identify best practices in one part of the globe and leveraging them across the entire CHC system.



LIFE SAVING RULES – Aligned with IOGP rules

- | | | |
|---|--|---|
| IOGP RULES <ul style="list-style-type: none"> Manage your journey to arrive safely Obtain authorization before entering a confined space Work with a valid permit when required No alcohol or drugs while working or driving | CHC RULES <ul style="list-style-type: none"> Plan the lift and control the area Protect yourself against falls when working at height Control fuel and ignition sources Use appropriate personal protective equipment (PPE) | Keep yourself and others in a safe position <ul style="list-style-type: none"> Verify isolation and zero energy before work Do not override safety systems or processes without authorization Work securely |
|---|--|---|



Annual Auditing Program

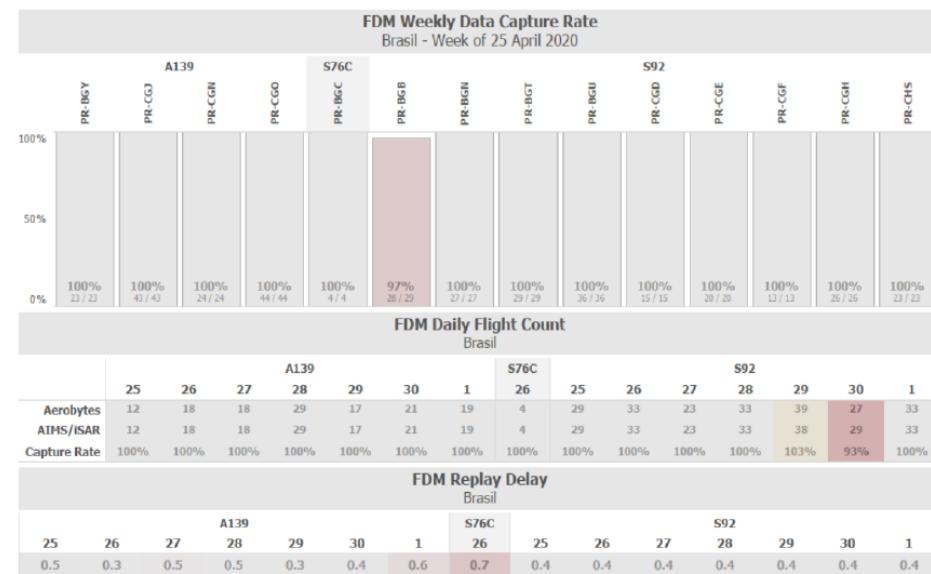


Customer Feedback



FDM

FDM Daily Flight Count Brasil												
	April 30		May 1		May 2		May 3		May 4		May 5	
	AB	AIMS	AB	AIMS	AB	AIMS	AB	AIMS	AB	AIMS	AB	AIMS
PR-BGX												
PR-BGY	4	4	2	2	4	4			4	4	4	4
PR-BGZ									3	3		
PR-CGJ	7	7	7	7	5	5			6	6	7	7
PR-CGN	4	4	6	6	6	6			6	6		
PR-CGO	6	6	4	4	4	4	4	4	3	3	6	6
AW139												
PR-BGC												
PR-CHI												
PR-BGB	3	5	3	3	4	4	5	5				
PR-BGM												
PR-BGN	6	6	4	4	6	6	8	8	3	3	5	5
PR-BGT	6	6	3	3	6	6	3	3	4	4	7	7
PR-BGU	5	5	8	8					5	5	5	5
PR-CGD	2	2	2	2	2	2			2	2	2	2
PR-CGE	2	2	6	6	6	6	1	1	2	2	4	4
PR-CGF			4	4	3	3	8	8				
PR-CGH	3	3	3	3			2	2	4	4	5	5
PR-CHS					2	2	4	4			2	2



INFORMATIVOS FDM

INFORMATIVO FDM BHS 14/2016

Reunião de Análise do FDM-AW139

O Grupo de Análise do FDM-AW139 reuniu-se base de Macaé no dia 19 de novembro de 2016, o objetivo de identificar os principais eventos ocorridos no trimestre Q2/FY17 (Após-Selar) e avaliar o risco das operações aéreas e emitir orientações e recomendações de segurança de voo pertinentes. A reunião foi conduzida pelo representante do grupo Cmte. Vogel, com o conf. registrado no SQID MET-002160.

CAPTAÇÃO DE DADOS

Data Capture by Count

Mês	Count
Aug	152
Sep	129
Oct	114

Data Capture Rate: 94% - 90%

Data Capture by Tail

Tail	Count
PR-BGZ	97.0%
PR-BGY	92.0%
PR-BGX	89.0%

Grand Total: 94.1%

O trimestre apresentou uma captura média de 94,1%, ainda abaixo dos 95% previstos, mas próximo da meta.

FLIGHT ACTIONS EMITIDAS POR TRIMESTRE



O gráfico ilustra o número de contatos efetuados tripulantes ao longo dos últimos trimestres. Houve emissão de somente 9 ações nesse trimestre, estendendo os contatos com os tripulantes e corte o "feedback" requerido para análise de tendências.

INFORMATIVO FDM BHS 15/2016

Reunião de Análise do FDM-S92A

O Grupo de Análise do FDM-S92A reuniu-se na Base Central no dia 29 de novembro de 2016 com o objetivo de identificar os principais eventos ocorridos no trimestre Q2 (Após-Selar), avaliar o risco das operações aéreas e emitir as orientações e recomendações de segurança de voo pertinentes. A reunião contou com a presença de instrutores e tripulantes, conforme registrado no SQID MET-002200.

CAPTAÇÃO DE DADOS

Data Capture by Count

Mês	Count
Aug	789
Sep	762
Oct	768

Data Capture Rate: 95% - 94%

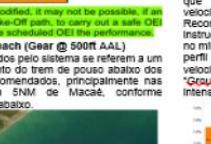
Data Capture by Tail

Tail	Count
PR-CHK	101.8%
PR-BGM	97.8%
PR-BOU	97.0%
PR-CHS	96.6%
PR-BOT	96.4%

Grand Total: 101.8%

O PR-CHK foi a única aeronave que esteve um pouco abaixo da meta, mas sem comprometer o resultado geral.

FLIGHT ACTIONS EMITIDAS POR TRIMESTRE



O Número de ações emitidas pelo Analista voltou a ser muito abaixo do esperado e alguns eventos deixaram de ser comunicados aos tripulantes.

INFORMATIVO FDM BHS 15/2016

Reunião de Análise do FDM-S92A

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CAPTAÇÃO DE DADOS

Data Capture by Count

Mês	Count
Aug	803
Sep	812
Oct	780

Data Capture Rate: 95% - 94%

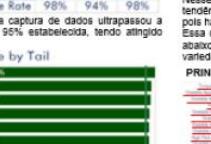
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Tail	Count
PR-CHK	101.8%
PR-BGM	97.8%
PR-BOU	97.0%
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PR-BOT	96.4%

Grand Total: 101.8%

O PR-BGM foi a única aeronave que esteve um pouco abaixo da meta, mas sem comprometer o resultado geral.

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INFORMATIVO FDM BHS 15/2016

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Sep	762
Oct	768

Data Capture Rate: 95% - 94%

Data Capture by Tail

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PR-CHS	96.6%
PR-BOT	96.4%

Grand Total: 101.8%

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CHC

Compliance Monitoring

Regional Scorecard

FN - VP or RD level	Category	HS - Cabo Frio	HS - Cuidad del Carmen	HS - Jacarepaguá
LAM	Accepted/Approved Data	100%	100%	100%
	Aircraft / Component Service	100%	100%	100%
	Aircraft Damage Prevention	100%	100%	100%
	Competence	100%	100%	98%
	Critical Tasks (JC) Awareness	100%	100%	100%
	FOB Control	100%	100%	100%
	HUMS MEL requirements	100%	90%	100%
	Part Configuration	100%	87%	100%
	Recording of Maintenance	100%	95%	100%
	Tooling Usage	100%	100%	98%
Total geral		100%	97%	100%

participation

FN - VP or RD level	freq.req.	base	AF 2023		
			maio	junho	julho
LAM	monthly	HS Jacarepaguá	6	7	4
		HS Cuidad del Carmen	2	1	1
		HS - Cabo Frio	2	2	
Total geral			10	10	5

ERP

ERP dashboard (target: two drills and two exercises per year)			ERP Date of Event / Type					
			AF 2023					
Business U.. Sub BU	Base		T1		T2		Total geral	
			maio	julho	agosto	setemb...		
LAM	Brazil	Cabo Frio	1	1			2	
	Jacarepaguá				1	1	1	
							3	

CONFIDENTIAL

Crew & Maintenance FRMS



Management of Change MoC

 CHC Landing Pad
OUR COMPANY Planning to Win
HUMAN RESOURCES Supporting You
EXECUTION Doing My Job

CHANGE MANAGEMENT CENTRE

Make the Case
Develop a Compelling Vision
Identify Key People & Roles
Create a Business Case
Risk Assessment Matrix

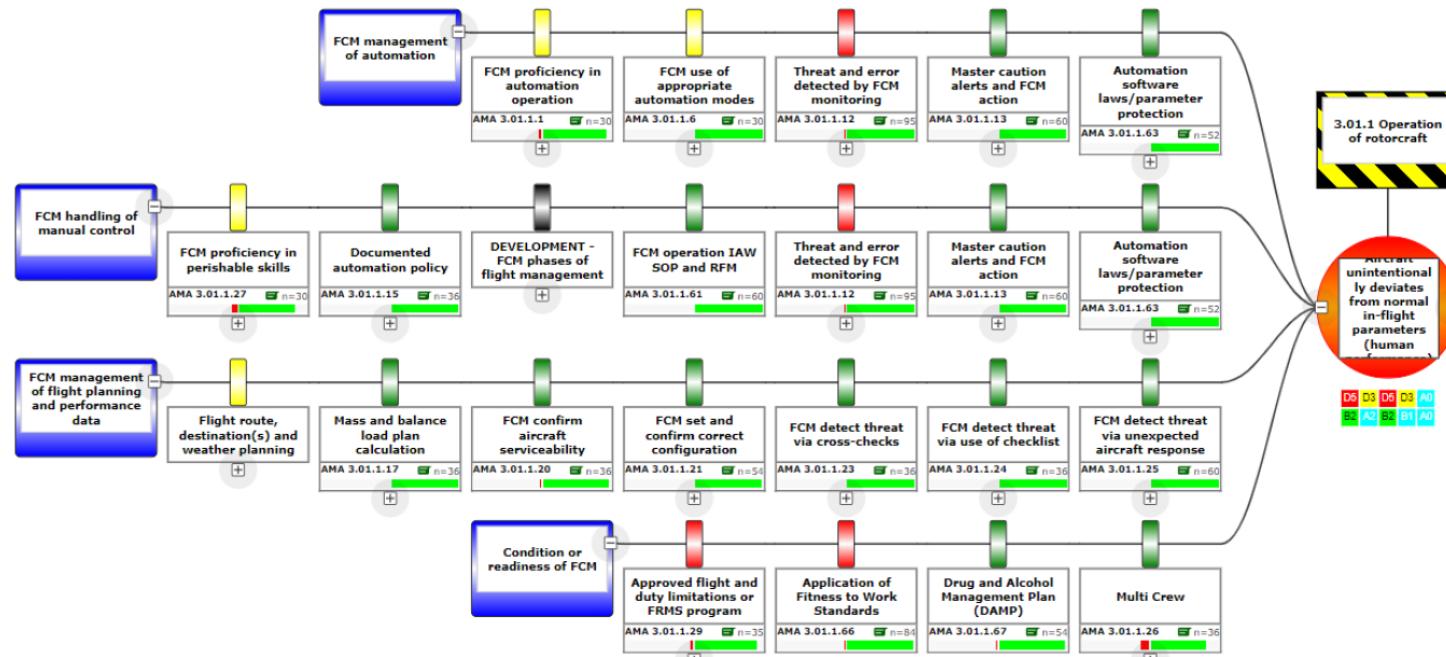


Change Management Centre

Welcome to CHC's Change Management Centre. This site has been designed to provide you with an interactive toolkit to help manage your change initiatives more effectively. It is based on a four stage model that is applicable to any change project. The stages include:

- Stage 1** Make the Case
- Stage 2** Design the Change
- Stage 3** Execute the Change
- Stage 4** Make it Stick

Safety Case – FFI



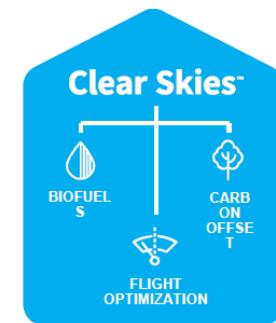
What is Clear Skies?

A Clearer Path to Net-Zero Emissions

CHC Clear Skies is key to building a sustainable future and reducing the carbon footprint of your aviation service by three steps

- 1. CO₂ optimised flight profile**
- 2. Utilization of Sustainable Aviation Fuel**
- 3. Carbon Offsets**

Clear Skies™



Let's get to carbon neutral, together.

CO₂ Optimized flight profile

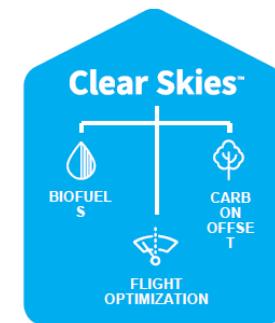
Project Objective → elimination of 5% CO₂ via optimum flight profile (speed, altitude, descent point)

- AW139 used as initial test bed added AW189, S92 and H175 platforms
- Automatic calculation within app
- No additional pilot workload

Inputs:

- Pilot (normal considerations only):
 - ✓ VFR/IFR, transition altitude, aircraft icing capability, route, A/C weight
- App:
 - ✓ New Data portal extraction of : climb and descent performance tables, cruise performance tables, operational cruise level limitations (eg ATC), aircraft limitations (weight), local transition altitude
 - ✓ Global live weather forecast database: cloud base (for VFR), icing level, wind velocity, temperature and pressure and direction at all possible altitudes at origin and destination

Clear Skies™



Let's get to carbon neutral, together.

2022 CHC Summit



2022 CHC SAFETY & QUALITY SUMMIT
OCT 11-13, 2022

BEHIND THE MASK:
WHAT IS THE TRUE SAFETY PICTURE?
THE WESTIN IRVING CONVENTION CENTER
400 West Las Colinas Boulevard
Irving, TX 75039, United States



Taking Care

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