GSAC

AIRWORTHINESS DIRECTIVE

released by DIRECTION GENERALE DE L'AVIATION CIVILE

Inspection and/or modifications described below are mandatory. No person may operate a product to which this Airworthiness Directive applies except in accordance with the requirements of this Airworthiness Directive.

Translation of 'Consigne de Navigabilité' ref. : 1998-377(A) In case of any difficulty, reference should be made to the French original issue.

REIMS CESSNA

F406 airplanes

Flight in icing conditions (ATA 30)

1. APPLICABILITY :

F406 airplanes all serial number.

2. <u>COMPLIANCE</u> :

To minimize the potential hazards associated with operating the airplane in severe icing conditions by providing more clearly defined procedures and limitations associated with such conditions the following measures are made mandatory at the effective date of this Airworthiness Directive.

3. <u>ACTIONS</u> :

Within 30 days after the effective date of this Airworthiness Directive, accomplish the requirements of paragraphs (1) and (2) of this AD .

1) Revise the FAA approved Airplane Flight Manual (AFM) by incorporating the following into the Limitations sections of the AFM. This may be accomplished by inserting a copy of this AD in the AFM.

"WARNING"

Severe icing may result from environmental conditions outside of those for which the airplane is certified. Flight in freezing rain, freezing drizzle, or mixed icing conditions (supercooled liquide water and ice crystals) may result in ice build-up on protected surfaces exceeding the capability of the ice protection system, or may result in ice forming aft of the protected surfaces. This ice may not be shed using the ice protection systems, and may seriously degrade the performance and controllability of the airplane.

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	During flight severe icing conditions that exceed those for which the airplane is certificated s be determined by the following visual cues. If one or more of these visual cues ex immediately request priority handling from Air Traffic Control to facilitate a route or an altitu change to exit the icing condition.						
	-	Unusually extensive ice accumulation observed to collect ice.	on the airfr	ame and windshield	in areas not no	rmally	
	- ,	Accumulation of ice on the upper surfac	e of the wing	g, aft of the protected	area.		
		Accumulation of ice on the engine na observed.	celles and	propeller spinners fa	urther aft than no	rmally	
	-	Since the autopilot, when installed and changes in handling characteristics, us cues specified above exist, or when warnings are encountered while the airp	d operating, se of the au n unusual l plane is in se	may mask tactile cu topilot is prohibited lateral trim requiren evere icing conditions	es that indicate ad when any of the nents or autopild	dverse visual ot trim	
	- ,	All wing icing inspection lights must be	operative pr	ior to flight into icing	conditions at nigh	t.	
	Not	<u>e</u> : This supersedes any relief provided	by the Mast	ter Minimum Equipm	ents List (MMEL).		
	2) Revis of the	se the FAA approved AFM by incorpo AFM. This may be accomplished by in	rating the fo	bllowing into the Nor	mal procedures s AFM.	ection	
THE FOLLOWING WEATHER CONDITIONS MAY BE CONDUCIVE TH SEVERE IN-FLIGHT ICING							
	- Visi	ble rain at temperatures below 0 degree	es Celsius a	mbient air temperatu	re.		
	- Dro tem	plets that splash or splatter on impact perature.	t at tempera	tures below 0 degre	es Celsius ambie	ent air	
	PROCEDURES FOR EXISTING THE SEVERE ICING ENVIRONMENT						
	Thes air te increa the v are o	e procedures are applicable to all flig emperature. While severe icing may fr ased vigilance is warranted at temper isual cues specified in the limitations s bserved, accomplish the following :	ht phases fi orm at temp rature aroun ection of the	rom takeoff to landir peratures as cold as ad freezing with visil e AFM for identifying	ng. Monitor the ar s -18 degrees Co ble moisture pres severe icing con	mbient elsius, sent. If ditions	
	- In cł co	nmediately request priority handling from nange to exit the severe icing conc nditions more severe than those for wh	om Air Traffi litions in or ich the airpla	c control to facilitate rder to avoid exten ane has been certifica	e a route or an a ded exposure to ated.	ltitude flight	
	- A'	void abrupt and excessive manoeuvring	that may ex	acerbate control diffi	culties.		
	- D	o not engage the autopilot					
	- If	the autopilot is engaged, hold the contr	ol wheel firm	nly and disengage the	e autopilot.		

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- If an unusual roll response or uncommanded roll control movement is observed, reduce the angle-of attack.
- Do not extend flaps when holding in icing conditions. Operation with flaps extended can result in a reduced wing angle-of-attack, with the possibility of ice forming on the upper surface further aft on the wing than normal, possibly aft of the protected area.
- If the flaps are extended, do not retract them until the airframe is clear of ice.
- Report the weather condition to Air Traffic Control.

Record the application of this Airworthiness Directive on the aircraft logbook.

<u>REF</u>. : AD 98-04-28

EFFECTIVE DATE : AUGUST 07, 1999