

Bell Helicopter **TEXTRON**

A Subsidiary of Textron, Inc.

Feb 14, 2005

INFORMATION LETTER 212-05-58
412-05-58

TO: All Owners/Operators of Bell 212, 412, and 412EP series Helicopters

SUBJECT: COLD WEATHER USE OF KEROSENE FUELS FOR 212 AND 412 HELICOPTERS

Bell Helicopter is pleased to introduce Canadian Supplemental Type Certificate **SH05-2** dated January 24, 2005, which allows operators of subject aircraft to carry out engine starts below -30 °C (-22 °F) **OAT** with all kerosene type fuels. The Flight Manual Supplement (FMS) enables operators to measure actual fuel temperature as an operational check prior to flight.

This Flight Manual Supplement (FMS) also expands the outside air temperature (OAT) limitations, which provides the operator the ability to operate to temperatures of -34 °C (-29 °F) for Jet A and -40 °C (-40 °F) for all other kerosene type fuels once the engines are started.

Bell Helicopter Technical Publications will send **free of charge** the attached STC SH05-2 to all customers with the Flight Manual Supplements to all applicable aircraft.

Bell Helicopter has requested Transport Canada to apply with the FAA for an equivalent STC in the United States to provide US operators with the same capability. Once this process is completed we will inform the operators of the STC number.



Department of Transport

Supplemental Type Certificate

This approval is issued to:

Bell Helicopter Textron Canada Limited
12800, rue de l'Avenir
Mirabel, Quebec, J7J 1R4
Canada

Number: SH05-2
Issue No.: 1
Approval Date: January 24, 2005
Issue Date: January 24, 2005

Responsible Office: Quebec
Aircraft/Engine Type or Model: BELL 212, 412, 412 EP
Canadian Type Certificate or Equivalent: H-86
Description of Type Design Change: *Cold weather use of Kerosene fuels for Bell 212 & 412 helicopters*

**Installation/Operating Data,
Required Equipment and Limitations:**

Use of Kerosene fuels in cold weather will be permitted in accordance with Bell Helicopter Report No. 412-099-675, initial release, dated 3 January 2005, or later Transport Canada approved revision.

The applicable Rotorcraft Flight Manual Supplements are the following Bell Helicopter publications :

Model 212 :

- BHT-212-FMS-31, issue 0, dated 24 January 2005;

Model 412 :

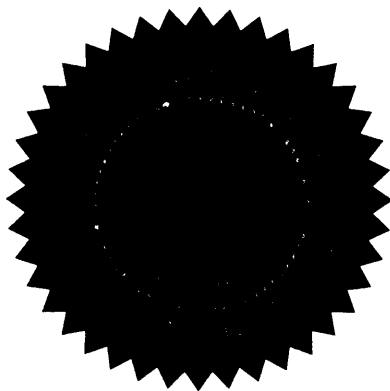
- BHT-412-FMS-23.1, issue 0, dated 24 January 2005;
- BHT-412-FMS-23.2, issue 0, dated 24 January 2005;
- BHT-412-FMS-23.3, issue 0, dated 24 January 2005;

Model 412EP :

- BHT-412-FMS-23.4, issue 0, dated 24 January 2005;

or later Transport Canada approved revision.

— End —



Conditions: This approval is only applicable to the type/model of aeronautical product specified therein. Prior to incorporating this modification, the installer shall establish that the interrelationship between this change and any other modification(s) incorporated will not adversely affect the airworthiness of the modified product.

Luize-Mihaela Avrigeanu
For Minister of Transport