due to insured causes, you must destroy it. If you disagree and refuse to destroy the tobacco with no value, we will determine the value and count it as production to count.

14. Late Planting.

(a) In lieu of late planting provisions in the Basic Provisions regarding acreage initially planted after the final planting date, insurance will be provided for acreage planted to the insured crop after the final planting date as follows:

(1) For each acre or portion thereof planted during the first 10 days after the final planting date, the farm yield will be reduced

by 1 percent per day; and

(2) For each acre or portion thereof planted during the 11th through the 15th day after the final planting date, the farm yield will be reduced by 2 percent per day.

(b) If you plant enough acreage to fulfill the effective poundage marketing quota, there will be no reduction in the insured poundage quota as a result of any late planted acreage.

15. Prevented Planting.

The prevented planting provisions in the Basic Provisions are not applicable to quota tobacco.

Signed in Washington, D.C., on June 19, 1998.

Kenneth D. Ackerman,

Manager, Federal Crop Insurance Corporation.

[FR Doc. 98–16968 Filed 6–25–98; 8:45 am] BILLING CODE 3410–08–P

DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Parts 21 and 29

[Docket No. SW002; Special Condition No. 29–002–SC]

Special Conditions: Eurocopter France Model AS-365 N3 "Dauphin" Helicopters, Full Authority Digital Engine Control (FADEC)

AGENCY: Federal Aviation Administration (FAA), DOT.

ACTION: Final special condition; request for comments.

SUMMARY: This special condition is issued for the Eurocopter France Model AS-365 N3 "Dauphin" helicopters. These helicopters will have a novel or unusual design feature associated with the Full Authority Digital Engine Control (FADEC). The applicable airworthiness regulations do not contain adequate or appropriate safety standards to protect systems that perform critical functions from the effects of highintensity radiated fields (HIRF). This special condition contains the additional safety standards that the Administrator considers necessary to ensure that critical functions of systems will be maintained when exposed to HIRF.

DATES: The effective date of this special condition is June 17, 1998. Comments must be received on or before August 25, 1998.

ADDRESSES: Comments on this special condition may be mailed in duplicate to: Federal Aviation Administration, Office of the Regional Counsel, Southwest Region, Attention: Rules Docket No. SW002, Fort Worth, Texas 76193–0007 or deliver in duplicate to the Office of the Regional Counsel, Southwest Region, at 2601 Meacham Blvd., Fort Worth, Texas 76137. Comments must be marked: Rules Docket No. SW002. Comments may be inspected in the Rules Docket weekdays, except Federal holidays, between 8:30 a.m. and 4:00 p.m.

FOR FURTHER INFORMATION CONTACT: Carroll Wright, FAA, Rotorcraft Directorate, Regulations Group, Fort Worth, Texas 76193–0111; telephone 817–222–5120, fax 817–222–5961.

SUPPLEMENTARY INFORMATION: The FAA has determined that notice and opportunity for prior public comment hereon are impracticable because these procedures would significantly delay issuance of the approval design and thus delivery of the affected aircraft. In addition, notice and opportunity for prior public comment are unnecessary since the substance of this special condition has been subject to the public comment process in several prior instances with no substantive comments received. The FAA therefore finds that good cause exists for making this special condition effective upon issuance.

Comments Invited

Interested persons are invited to submit such written data, views, or arguments as they may desire. Communications should identify the regulatory docket and be submitted in duplicate to the address specified above. All communications received on or before the closing date for comments will be considered by the Administrator. The special condition may be changed in light of the comments received. All comments received will be available in the Rules Docket for examination by interested persons, both before and after the closing date for comments. A report summarizing each substantive public contact with FAA personnel concerning this rulemaking will be filed in the docket. Commenters wishing the FAA to acknowledge receipt of their comments submitted in response to this Special Condition must include a selfaddressed, stamped postcard on which the following statement is made: "Comments to Rules Docket No. SW002" The postcard will be date

stamped and returned to the commenter.

Background

On September 1, 1997, Eurocopter France applied for an amendment to Type Certificate (TC) No. H10EU to include the new Model AS–365 N3 "Dauphin" helicopter. The Model AS–365 N3 "Dauphin" helicopter, which is a derivative of the Model AS–365 N2 helicopter that is currently approved under TC No. H10EU, is a transport category A and B helicopter powered by two Turbomeca Arriel 2C engines with FADEC. The Turbomeca Arriel 1C2 engine has been replaced with the Turbomeca Arriel 2C engine, which includes a digital engine control system.

Type Certification Basis

Under the provisions of 14 CFR § 21.101, Eurocopter France must show that the Model AS-365 N3 "Dauphin" helicopter meets the applicable provisions of the regulations incorporated by reference in TC No. H10EU or the applicable regulations in effect on the date of application for the change to the Model No. AS-365 N3. The regulations incorporated by reference in the type certificate are commonly referred to as the "original type certification basis." The regulations incorporated by reference in H10EU are as follows: § 21.29 and 14 CFR part 29, effective February 1, 1965, plus Amendments 29-1 through 29-11. In addition, the applicant elected to comply with 14 CFR part 29 amendments 29-12 through 29-16, except for 14 CFR part 29.397 concerning the rotorbrake. The certification basis also includes certain special conditions and equivalent safety findings that are not relevant to this special condition.

If the Administrator finds that the applicable airworthiness regulations do not contain adequate or appropriate safety standards for these helicopters because of a novel or unusual design feature, special conditions are prescribed under the provisions of § 21.16.

In addition to the applicable airworthiness regulations and special conditions, the Model AS–365 N3 helicopter must comply with the noise certification requirements of 14 CFR part 36; and the FAA must issue a finding of regulatory adequacy pursuant to § 611 of Public Law 92–574, the "Noise Control Act of 1972."

Special conditions, as appropriate, are issued in accordance with § 11.49, as required by §§ 11.28 and 11.29(b), and become part of the type certification basis in accordance with § 21.101(b)(2).

Special conditions are initially applicable to the model for which they are issued. Should the type certificate for that model be amended later to include any other model that incorporates the same novel or unusual design feature, or should any other model already included on the same type certificate be modified to incorporate the same novel or unusual design feature, the special conditions would also apply to the other model under the provisions of § 21.101(a)(1).

Novel or Unusual Design Features

The Eurocopter France Model AS–365 N3 "Dauphin" helicopter will incorporate the following novel or unusual design features: Electrical, electronic, or combination of electrical electronic (electrical/electronic) systems, such as FADEC, that will be performing functions critical to the continued safe flight and landing of the helicopter. FADEC is an electronic device that performs the functions of engine control.

Discussion

The Eurocopter France Model AS–365 N3 "Dauphin" helicopter, at the time of application, was identified as having modifications that incorporate one and possibly more electrical/electronic systems, such as FADEC. After the design is finalized, Eurocopter France will provide the FAA with a preliminary hazard analysis that will identify any other critical functions required for safe flight and landing that are performed by the electrical/electronic systems.

Recent advances in technology have given rise to the application in aircraft designs of advanced electrical/electronic systems that perform critical functions. These advanced systems respond to the transient effects of induced electrical current and voltage caused by HIRF incident on the external surface of the helicopter. These induced transient currents and voltages can degrade the performance of the electrical/electronic systems by damaging the components or by upsetting the systems' functions.

Furthermore, the electromagnetic environment has undergone a transformation not envisioned by the current application of 14 CFR § 29.1309(a). Higher energy levels radiate from operational transmitters currently used for radar, radio, and television. Also, the number of HIRF transmitters has increased significantly.

Existing aircraft certification requirements are inappropriate in view of these technological advances. In addition, the FAA has received reports of some significant safety incidents and accidents involving military aircraft equipped with advanced electrical/electronic systems when they were exposed to electromagnetic radiation.

The combined effects of the technological advances in helicopter design and the changing environment have resulted in an increased level of vulnerability of the electrical/electronic systems required for the continued safe flight and landing of the helicopter. Effective measures to protect these helicopters against the adverse effects of exposure to HIRF will be provided by the design and installation of these systems. The following primary factors contributed to the current conditions: (1) increased use of sensitive electronics that perform critical functions; (2) reduced electromagnetic shielding afforded helicopter systems by advanced technology airframe materials; (3) adverse service experience of military aircraft using these technologies; and (4) an increase in the number and power of radio frequency transmitters and the expected increase in the future.

The FAA recognizes the need for aircraft certification standards to keep pace with the developments in technology and environment and, in 1986, initiated a high-priority program to (1) determine and define electromagnetic energy levels; (2) develop and describe guidance material for design, test, and analysis; and (3) prescribe and promulgate regulatory standards.

The FAA participated with industry and airworthiness authorities of other countries to develop internationally recognized standards for certification.

The FAA and airworthiness authorities of other countries have identified two levels of the HIRF environment to which a helicopter could be exposed, one environment for VFR operations and a different environment for IFR operations. While the HIRF rulemaking requirements are being finalized, the FAA is adopting a special condition for the certification of aircraft that employ electrical/electronic systems that perform critical functions. The accepted maximum energy levels that civilian helicopter system installations must withstand for safe operation are based on surveys and analysis of existing radio frequency transmitters. This special condition will require the helicopters' electrical/ electronic systems and associated wiring to be protected from these energy levels. These external threat levels are believed to represent the worst-case exposure for a helicopter operating under VFR or IFR.

Compliance with HIRF requirements will be demonstrated by tests, analysis, computer models, similarity with existing systems, or a combination of these methods. Service experience alone will not be acceptable since such experience in normal flight operations may not include an exposure to HIRF. Reliance on a system with similar design features for redundancy, as a means of protection against the effects of external HIRF, is generally insufficient because all elements of a redundant system are likely to be concurrently exposed to the radiated fields.

This special condition will require the systems that perform critical control functions, or provide critical displays as installed in the aircraft, to meet certain standards based on either a defined HIRF environment or a fixed value using laboratory tests. Control system failures and malfunctions can more directly and abruptly contribute to a catastrophic event than display system failures and malfunctions. Therefore, it is considered appropriate to require more rigorous HIRF verification methods for critical control systems than for critical display systems.

The applicant may demonstrate that the operation and operational capabilities of the installed electrical/electronic systems that perform critical functions are not adversely affected when the aircraft is exposed to the defined HIRF test environment. The FAA has determined that the test environment defined in Table 1 is acceptable for critical control functions in helicopters. The test environment defined in Table 2 is acceptable for critical display systems in helicopters.

The applicant may also demonstrate by a laboratory test that the electrical/ electronic systems that perform critical control, or provide critical displays, can withstand a peak electromagnetic field strength in a frequency range of 10 KHz to 18 GHz. If a laboratory test is used to show compliance with the defined HIRF environment, no credit will be given for signal attenuation due to installation. A level of 100 volts per meter (v/m) is appropriate for critical displays systems. A level of 200 v/m is appropriate for critical control functions. Laboratory test levels are defined according to RTCA/DO-160D Section 20 Category W (100 v/m and 150 mA) and Category Y (200 v/m and 300 mA). As defined in DO-160D Section 20, the test levels are defined as the peak of the root mean square (rms) envelope. As a minimum, the modulations required for RTCA/ DO-160D Section 20 Categories W and Y will be used. Other modulations should be selected for the signal most

likely to disrupt the operation of the system under test, based on its design characteristics. For example, flight control systems may be susceptible to 3 Hz square wave modulation while the video signals for electronic display systems may be susceptible to 400 H_z sinusoidal modulation. If the worst-case modulation is unknown or cannot be determined, default modulations may be used. Suggested default values are a 1 KH_z sine wave with 80 percent depth of modulation in the frequency range from 10 KHz to 400 MHz and 1 KHz square wave with greater than 90 percent depth of modulation from 400 MHz to 18 GHz. For frequencies where the unmodulated signal would cause deviations from normal operation, several different modulating signals with various waveforms and frequencies should be applied.

Àpplicants must perform a preliminary hazard analysis to identify electrical/electronic systems that perform critical functions. The term critical" means those functions whose failure would contribute to or cause an unsafe condition that would prevent the continued safe flight and landing of the helicopter. The systems identified by the hazard analysis as performing critical functions are required to have HIRF protection. A system may perform both critical and noncritical functions. Primary electronic flight display systems and their associated components perform critical functions such as attitude, altitude, and airspeed indications. HIRF requirements would apply only to the systems that perform critical functions.

Acceptable system performance would be attained by demonstrating that the critical function components of the system under consideration continue to perform their intended function during and after exposure to required electromagnetic fields. Deviations from system specifications may be acceptable but must be independently assessed by the FAA on a case-by-case basis.

TABLE 1.—VFR ROTORCRAFT FIELD STRENGTH VOLTS/METER

Frequency	Peak	Average
10–100 KHz	150	150
100–500	200	200
500-2000	200	200
2-30 MHz	200	200
30-100	200	200
100–200	200	200
200-400	200	200
400-700	730	200
700–1000	1400	240
1–2 GHz	5000	250
2–4	6000	490
4–6	7200	400

TABLE 1.—VFR ROTORCRAFT FIELD STRENGTH VOLTS/METER—Continued

Frequency	Peak	Average
6–8	1100 5000 2000 1000	170 330 330 420

TABLE 2.—IFR ROTORCRAFT FIELD STRENGTH VOLTS/METER

Frequency	Peak	Average
10–100 KHz	50	50
100-500	50	50
500-2000	50	50
2-30 MHz	100	100
30–70	50	50
70–100	50	50
100–200	100	100
200-400	100	100
400-700	700	50
700-1000	700	100
1–2 GHz	2000	200
2–4	3000	200
4–6	3000	200
6–8	1000	200
8–12	3000	300
12–18	2000	200
18–40	600	200

Applicability

As previously discussed, this special condition is applicable to Model AS—365 N3 helicopters. Should Eurocopter France apply at a later date for a change to the type certificate to include another model incorporating the same novel or unusual design feature, the special condition would apply to that model as well under the provisions of § 21.101(a)(1).

Conclusion

This action affects only certain novel or unusual design features on one model series of helicopters. It is not a rule of general applicability and affects only the applicant who applied to the FAA for approval of these features on the helicopters.

The substance of this special condition has been subjected to the notice and comment procedures in several prior instances and has been derived without substantive change from those previously issued. It is unlikely that prior public comment would result in a significant change from the substance contained herein. For this reason and because a delay would significantly affect the certification of the helicopter, which is imminent, the FAA has determined that prior public notice and comment are unnecessary and impracticable, and good cause exists for adopting this special condition upon issuance. The

FAA is requesting comments to allow interested persons to submit views that may not have been submitted in response to the prior opportunities for comment described above.

List of Subjects in 14 CFR Part 21 and 29

Aircraft, Air transportation, Aviation safety, Rotorcraft, Safety.

The authority citation for these special conditions is as follows: 42 USC 7572; 49 USC. 106(g), 40105, 40113, 44701–44702, 44704, 44709, 44711, 44713, 44715, 45303.

The Special Condition

Accordingly, pursuant to the authority delegated to me by the Administrator, the following special condition is issued as part of the type certification basis for Eurocopter France Model AS 365 N3 "Dauphin" helicopters.

Protection for Electrical and Electronic Systems From High Intensity Radiated Fields

Each system that performs critical functions must be designed and installed to ensure that the operation and operational capabilities of these critical functions are not adversely affected when the helicopter is exposed to high intensity radiated fields external to the helicopter.

Issued in Fort Worth, Texas, on June 17, 1998.

Eric Bries,

Acting Manager, Rotorcraft Directorate Aircraft Certification Service, ASW-100. [FR Doc. 98–16960 Filed 6–25–98; 8:45 am] BILLING CODE 4910–13–U

DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 27

[Docket No. SW001; Special Conditions No. 27–001–SC]

Special Conditions: Eurocopter Model AS-350 B3 "Ecureuil" Helicopters, Full Authority Digital Engine Control (FADEC)

AGENCY: Federal Aviation Administration (FAA), DOT.

ACTION: Final special condition; request for comments.

SUMMARY: This special condition is issued for the Eurocopter Model AS–350 B3 "Ecureuil" helicopters. These helicopters will have a novel or unusual design feature associated with the Full Authority Digital Engine Control