

Pertinent HIRF Directives

This temporary license is required to conduct testing necessary to support airframe certification for induced lightning and high intensity radiated fields (HIRF). The test data will be used to validate low frequency HIRF and lightning models and assure compliance with HIRF and lightning requirements as specified by the following directives:

FAA issue paper SE-2, Boeing 777, "Lightning Grounding and Protection Requirements."

JAA document JAR25X899, Boeing 777, "Electrical Grounding and Protection against Lightning and Static Electricity."

FAA issue paper SE-1, Boeing 777, "Protection from High Intensity Radiated Fields (HIRF)."

JAA HIRF Certification Review Item D-5 - Stage 2, Boeing 777, "Special Condition Protection from External High Intensity Radiated Fields."

FAA Special Condition #25-ANM-25, Boeing 747-400 and 747-400F, "Boeing 747-400 Lightning and Radio Frequency Energy Protection."

JAA Special Condition AAB747-400F/02, Boeing 747-400F, "Lightning Protection Indirect Effects."

JAA Special Condition AAB747-400F/01, Boeing 747-400F, "High Intensity Radiated Fields (HIRF)."

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
SPECIAL TEMPORARY AUTHORIZATION**

EXPERIMENTAL

(Nature of Service)

XR FX

(Class of Station)

KA8XNF

(Call Sign)

S-3487-EX-1998

(File Number)

NAME

THE BOEING COMPANY

SEATTLE, WA - NL 47-32-21; WL 122-18-44

(Location of Station)

Special Temporary Authority is hereby granted to operate the apparatus described below:

Purpose of Operation:

AIRCRAFT CERTIFICATION.

Frequency MHz	Class Stn	Emission Designator	Authorized Power watts
.01000-			
1.00000	FX	NON	50mW (ERP)
1.00000-			
50.00000	FX	NON	1.585K (ERP)
50.00000-			
100.00000	FX	NON	18W (ERP)

Special Conditions:

(1) SUBJECT TO PRIOR COORDINATION WITH FAA-SEATTLE REGION.

This Special Temporary Authorization is granted upon the express condition that it may be terminated by the Commission at any time without advance notice or hearing if in its discretion the need for such action arises. Nothing contained herein shall be construed as a finding by the Commission that the authority herein granted is or will be in the public interest beyond the express terms hereof.

This Special Temporary Authorization shall not vest in the grantee any right to operate the station nor any right in the use of the frequencies designated in the authorization beyond the term hereof, nor in any other manner than authorized herein. Neither the authorization nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This authorization is subject to the right of use of control the Government of the United States conferred by Section 706 of the Communications Act of 1934.

This authorization effective August 20, 1998 and
will expire 3:00 A.M. EST October 1, 1998

**FEDERAL
COMMUNICATIONS
COMMISSION**

