



the antenna specialists co.

a member of The Allen Group Inc.

30500 Bruce Industrial Parkway, Cleveland, Ohio 44139 - 3996 U.S.A.

TEL NO: 216 349-8400 • FAX NO: 216 349-8407

April 19, 1991

EXHIBIT A

Federal Communications Commission
Washington DC 20554

REFERENCE: Application/modification/reinstatement for
Experimental Authorization
File No. 0878-EX-MR-88 Call Sign: KO2XGJ

The authorization resulting from this application/modification/
reinstatement will be used by the applicant for designing,
developing and testing its antenna products and accessories in the
frequency bands requested, in accordance with Part 5, Subpart E of
the Commission's Rules.

Such data as power handling capacity, near field characteristics,
effects on and to nearby objects and other parameters not readily
determinable by conventional laboratory methods will be possible.

Testing will generally be done indoors at near ground level (within
6 meters of the ground) and in a horizontal position. The ability
to make such tests under power conditions will enable the design
and future manufacture of more efficient, space-saving and
economical products for trunking, cellular and other uses. Testing
on a secondary non-interfering basis as well as compliance with
applicable Rules is understood.

Marvin S. Grossman
Field Applications Manager

MSG:mg

FCCEXP1-1



The Antenna Specialists Co. (div.), 30500 Bruce Industrial Pkwy. Cleveland,
 United States of America Ohio 44139-3996
 FEDERAL COMMUNICATIONS COMMISSION
 EXPERIMENTAL RADIOSTATION
 LICENSE

EXHIBIT B

EXPERIMENTAL
 (Nature of Service)

K O 2 X G J
 (Call Sign)

(AS MODIFIED AND RENEWED)

XD FX
 (Class of station)

0878-EX-MR-88
 (File number)

NAME ORION INDUSTRIES, INC.

Solon (Cuyahoga) Ohio - Lat. 41 22 40 N; Long. 81 27 40 W.
 (Location of station)

Subject to the provisions of the Communications Act of 1934, subsequent acts, and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions and requirements set forth in this license, the licensee hereof is hereby authorized to use and operate the radio transmitting facilities hereinafter described for radio communications.

Frequency (kHz)	Authorized Power (kW)	Emission Designator
25010-25070	5 (ERP)	16KF3E
25210-25330	5 (ERP)	16KF3E
26175-26480	5 (ERP)	16KF3E
29700-29890	5 (ERP)	16KF3E
29910-30000	5 (ERP)	16KF3E
30.56-32.0 MHz	5 (ERP)	16KF3E
33 - 34 MHz	5 (ERP)	16KF3E
35 - 36 MHz	5 (ERP)	16KF3E
37 - 37.5 MHz	5 (ERP)	16KF3E
39 - 40 MHz	5 (ERP)	16KF3E
42 - 46.6 MHz	5 (ERP)	16KF3E
47 - 49.6 MHz	5 (ERP)	16KF3E
150.8-156.25 MHz	10 (ERP)	16KF3E
173.2-173.4 MHz	10 (ERP)	16KF3E
450-512 MHz	10 (ERP)	16KF3E
806-960 MHz	5 (ERP)	16KF3E

In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.

Operation: In accordance with Sec. 5.202(i) of the Commission's Rules.

This authorization effective July 1, 1988 and
 will expire 3:00 A.M. EST July 1, 1990

FEDERAL
 COMMUNICATIONS
 COMMISSION

April 19, 1991


EXHIBIT C

Test Report Summary in compliance with Section 5.204 for Experimental Radio Station K02XGJ

07 FEB 1989	450.0MHz	30 minutes	50 W
	Competitive Product Test		
12 MAY 1989	870.0MHz	10 minutes	100 W
	On-Glass Tests		
01 JUN 1989	26.450MHz	5 minutes	200 W
	Mobile Look-alike		
20 SEP 1989	870-879MHz 10 chan.	15 minutes	25 W/chan.
	RMA Base Station Antenna Test		
21 SEP 1989	870-8790MHz 10 chan.	15 minutes	25 W/chan.
	RMA Duplexer Test		
04 JAN 1990	870-879MHz 10 chan.	15 minutes	25 W/chan.
	Base Station Antenna Intermod Tests		
24 JAN 1990	150.0MHz	15 minutes	100 W
	On-Glass Tests		
06 FEB 1990	150.0MHz	45 minutes	100 W
	On-Glass Tests		
07 FEB 1990	155.0MHz	15 minutes	100 W
	On-Glass Tests		
08 FEB 1990	450.0MHz	15 minutes	100 W
	On-Glass Tests		
29 MAR 1990	870-879MHz 10 chan.	30 minutes	25 W/chan.
	Combiner Tests		
29 MAR 1990	870-879MHz 10 chan.	15 minutes	25 W/chan.
	Duplexer Tests		
01 MAY 1990	870-879MHz 10 chan.	30 minutes	25 W/chan.
	Base Station Antenna Intermod Tests		
02 MAY 1990	Same as above		
23 MAY 1990	150.0MHz	15 minutes	100 W
	Base Station Antenna Tests		
06 JUN 1990	870-879MHz 10 chan.	15 minutes	25 W/chan.
	RMA Duplexer Tests		

Environmental Impact Statement

Applicant claims exclusion from the provision based upon the service being "Land-Mobile".


Marvin S. Grossman
Field Applications Manager