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United States of America FEDERAL COMMUNICATIONS COMMISSION EXPERIMENTAL RADIO STATION CONSTRUCTION PERMIT AND LICENSE

202-418-2432

EXPERIMENTAL	KA2XIK		
(Nature of Service)	(Call Sign)		
XR FX	6105-EX-ML-1998		
(Class of Station)	(File Number)		

NAME VIRGINIA TECH SEISMOLOGICAL OBSERVATORY

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 in accordance with the program of experimentation described by the licensee in its application for license.

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

Station Locations

- (1) Butt Mountain, VA NL 37-22-30; WL 80-37-30
- (2) Butt Mountain, VA NL 37-22-30; WL 80-37-30
- (3) Butt Mountain, VA NL 37-22-30; WL 80-37-30
- (4) Butt Mountain, VA NL 37-22-30; WL 80-37-30
- (5) Walker Mountain, VA NL 37-06-31; WL 80-58-14
- (6) Princeton, VA NL 37-20-06; WL 81-02-55
- (7) Forest Hill, VA NL 37-34-00; WL 80-47-30
- (8) Prospectdale, VA NL 37-17-30; WL 80-40-30
- (9) Blacksburg, VA NL 37-22-30; WL 80-25-30

Frequency Information

Butt Mountain, VA - NL 37-22-30; WL 80-37-30

Frequency 216.3 MHz	Station Class FX	Emission Designator 5K00F2D	Authorized Power watts 24 (ERP)	Tolerance (+/-)			
Butt Mountain, VA - NL 37-22-30; WL 80-37-30							
Frequency 216.5 MHz	Station Class FX	Emission Designator 5K00F2D	Authorized Power watts 24 (ERP)	Tolerance (+/-)			
Butt Mountain, VA - NL 37-22-30; WL 80-37-30							
Frequency 216.9 MHz	Station Class FX	Emission Designator 5K00F2D	Authorized Power watts 24 (ERP)	Tolerance (+/-)			

This authorization effective will expire 3:00 A.M. EST

MAY 20, 1998 and NOV 01, 1999

FEDERAL COMMUNICATIONS COMMISSION

DR. J. ARTHUR SNOKE, 4044 DERRING HALL, BLACKSBURG, VA 240610420

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Frequency Information

Butt Mountain, VA - NL 37-22-30; WL 80-37-30

Frequency 217.3 MHz	Station Class FX	Emission Designator 5K00F2D	Authorized Power watts 24 (ERP)	. Tolerance (+/-)			
Walker Mountain, VA - NL 37-06-31; WL 80-58-14							
Frequency 217.7 MHz	Station Class FX	Emission Designator 5K00F2D	Authorized Power watts 24 (ERP)	Tolerance (+/-)			
Princeton, VA - NL 37-20-06; WL 81-02-55							
Frequency 218.95 MHz	Station Class FX	Emission Designator 5K00F2D	Authorized Power watts 24 (ERP)	Tolerance (+/-)			
Forest Hill, VA - NL 37-34-00; WL 80-47-30							
Frequency 219.25 MHz	Station Class FX	Emission Designator 5K00F2D	Authorized Power watts 24 (ERP)	Tolerance (+/-)			
Prospectdale, VA - NL 37-17-30; WL 80-40-30							
Frequency 219.55 MHz	Station Class FX	Emission Designator 5K00F2D	Authorized Power watts 24 (ERP)	Tolerance (+/-)			
Blacksburg, VA - NL 37-22-30; WL 80-25-30							
Frequency 219.85 MHz	Station Class FX	Emission Designator 5K00F2D	Authorized Power watts 24 (ERP)	Tolerance (+/-)			

Special Conditions:

⁽¹⁾ The station identification requirements of Section 5.152 of the Commission's Rules are waived.

Exhibit 2

The authorization is to be used for fulfilling U.S. Geological Suvery Contract Number 99HQAG0172, to operate a seismic monitoring network. The Contracting Officer is Francine Harris, (703)648-7386. U.S. Geological Survey, Mail Stop 205K, Reston, Va, 20192.

Exhibit 3

The research involves operation of remote digitizers that record ground motion. The radio equipment is absolutely necessary in order to telemeter the digital ground motion data from the remote recording sites to the central recording facility in Blacksburg. There exists no other option for accomplishing this telemetry. The purpose of this application is simply to renew the FCC experimental licence.