

APPLICATION FOR RENEWAL OF RADIO STATION
LICENSE IN SPECIFIED SERVICES

Specified Services
(FCC Rules Part 5, Part 21, Part 22, Part 23, Part 25)

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Instructions:

1. Submit TWO COPIES direct to the Federal Communications Commission, Washington, D. C. 20554. (Only one copy is required for application under Part 5 of FCC Rules.)
2. Name of applicant must be identical with that shown on current license.
3. See Notice on reverse side of form.

File No. 7769-EX-R-87
Service: FCC MAIL BRANCH
Call Sign: KG2XLY
Class:

1. Name of Applicant (See Instruction 2.)
Oklahoma Geophysical Observatory
of the Oklahoma Geological Survey

2. Mailing Address of Applicant (Number and Street, City, State and ZIP Code)
Box 8
Leonard, OK 74043-0008

Application is for renewal of license in exact conformity with the existing license as specified below:

a. File Number 7769-EX-R-87	b. Date Issued June 1, 1987	c. Call Sign KG2XLY
d. Location Mobile within 70-mile radius of Leonard, OK 35 54 37N 95 47 34W	e. Nature of Service Experimental Research	
f. Class of Station Experimental XR MO	g. Expiration Date	

4. Note any changes such as discontinuance of use of a frequency, or of a type of emission or of a transmitter, correction of serial number of a transmitter; or any minor change in a transmitter not requiring a construction permit, which have been made since the last application covering this station was filed:

No change

See attachment #1 for brief report of operation of KG2XLY from July 1, 1985 to May 31, 1987.

Applicant represents that there has been no change in applicant's organization and that there has been no transfer of control or changes in the applicant's relation to the station, financial responsibility, or in the equipment authorized to be used by the station; that applicant's most recent application or report embodying this information (file 7769-ER-PL-78 date Aug 30, 1978) is to be considered as a part of this application, and the truth of the statements therein contained is hereby reaffirmed. Note here any further exceptions, not already covered in question 4:

No change in organization

6. Applicant waives any claim to the use of any particular frequency or of the ether as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and requests a station license in accordance with this application. Applicant acknowledges that all attached exhibits are a material part hereof.

Willful false statements made on this form are punishable by fine and/or imprisonment.
U.S. Code, Title 18, Section 1001.

Certification

I certify that the statements in this application are true, complete and correct to the best of my knowledge and belief, and are made in good faith.

7. Name of Applicant (Must correspond with item 1.)
Oklahoma Geophysical Observatory
of the Oklahoma Geological Survey

8. Title of Applicant (if any)

9. Signature
J. E. Lawson Jr.
J. E. Lawson, Jr., Chief Geophysicist

10. Designate Appropriate Classification
☐ Individual Applicant ☐ Member of Partnership ☒ Authorized Representative of Corporation
☐ Officer who is also a Member of the Application Association ☐ Official of Government Entity

11. Date
May 31, 1989

ATTACHMENT No. 1 - Report of Use of KG2XLY
July 1, 1985 to May 31, 1987

The three KG2XLY transmitters have been in continuous (24 hours per day, seven days per week) operation transmitting seismic signals over distances of 50 to 75 km. from remote sites to the Oklahoma Geophysical Observatory near Leonard, Oklahoma.

The recorded seismograms have been used in detecting and locating about 100 earthquakes occurring in Oklahoma, and 20 in adjacent states. All locations are furnished to the U.S. Army Corps of Engineers, the U.S. Geological Survey, and the U.S. Nuclear Regulatory Commission. In addition all epicenters have been published in Oklahoma Geology Notes, Earthquake Notes, and United States Earthquakes, a USGS/NOAA publication. All seismograms have been permanently archived. The seismograms themselves and any information derived from them are made freely available to any U.S. Government agency, any University or Corporation, and to the general public. The sole restriction is that original seismograms (as opposed to copies) are not loaned out except to qualified seismologists (U.S. Government or otherwise) with a particular need for fine details which will not copy well.

In addition to the study of local earthquakes, arrival times from about 130 distant earthquakes per month are transmitted to the USGS National Earthquake Information Service for their world-wide Preliminary Determination of Epicenters program. Although we do not know the details, we understand that the USGS relays these arrival times and amplitudes to AFTAC at Patrick AFB for use in detecting and identifying underground nuclear tests.

On November 7, 1983 we notified the U.S. Navy SPASUR operations about our operation on 217.00 MHZ even though we have never operated within the required coordination area (within 150 miles of Lewisville, AR). ~~This letter is attachment no. 2.~~ Mr. Carroll Hayden, SASPUR engineer, phoned us after receiving our letter. He said that our operation could not possibly interfere with SPASUR reception at Lewisville, AR.