

FEDERAL CIVIL DEFENSE ADMINISTRATION

~~WASHINGTON 25, D.C.~~

NATIONAL OFFICE
Battle Creek, Michigan

DEC 30 1955

Mr. Norman L. Maguire
1420 Columbia Drive, N.E.
Albuquerque, New Mexico

Dear Mr. Maguire:

This will confirm your reported reception of Broadcast Station KO2XDN, an experimentally licensed, 250-watt transmitter located 4700' from ground zero of the "Operation Cue" nuclear explosion at the Nevada Test Site. This was part of a project to determine the effects of a nuclear explosion on commercial communications equipment. It was sponsored jointly by the Federal Civil Defense Administration and the Radio, Electronics, and Television Manufacturers Association as Project 35.2 of the Civil Effects Test Group of the Atomic Energy Commission.

The transmitter was programmed with a repetitive tape recording on 1240 kilocycles; it operated into a 150-foot guyed antenna. The Station was on the air several nights between April 26 and May 5 in expectation of the detonation which occurred on the latter date. The transmitter did not come back on the air three minutes after the blast as was provided for through timing signals, due primarily to the snapping of the power service line from the generator unit serving the equipment. Despite some "tumbling" of the Station equipment, the only needed repair work was to re-establish power supply. Five minutes following this, the transmitter was back on the air with its program on the afternoon of May 6.

KO2XDN has been removed from the Test Site and will not be heard again. We appreciate your report and will mail you a copy of a booklet describing "Operation Cue" as soon as it is published.

Many thanks.

Sincerely yours,

Albert H. Stevenson

Albert H. Stevenson
Director, Program 35
Civil Effects Test Group

Radio Station KO2XDN
CEFG Program 35
P.O. Box 7
Mercury, Nevada