

INTERFERENCE STUDY SUMMARY
PROPOSED KSTU-DT
CHANNEL 28 – SALT LAKE CITY, UTAH

<u>Call Sign</u>	<u>City, State</u>	<u>CH.</u>	<u>Coverage Population</u>	<u>Interference Population From KSTU-DT*</u>	<u>%</u>
KUPX-DT	Provo, UT	29	1,787,541	386	<0.1

*Above that caused by the allotment facility.

Note: This study utilized a cell size of 2.0 km and an increment spacing of 1.0 km.

EXHIBIT E

POWER DENSITY CALCULATION
PROPOSED KSTU-DT
CHANNEL 28 – SALT LAKE CITY, UTAH

Since the FCC considers the possible biological effects of RF transmissions in its environmental determinations, we have studied the matter with respect to this Salt Lake City facility. Employing the methods set forth in *OET Bulletin No. 65* and considering a main-lobe effective radiated power of 1000 kw, an antenna radiation center 51.2 meters above ground, and the elevation pattern of the Dielectric antenna, maximum power density two meters above ground of 0.23 mw/cm^2 is calculated to occur 17 meters north and south of the base of the tower. Since this is only 12.7 percent of the 1.85 mw/cm^2 reference for controlled environments (areas without public access) surrounding a facility operating on Channel 28 (554-560 MHz), and since this site is secure from unauthorized access, a grant of this proposal may be considered a minor environmental action with respect to public and occupational ground-level exposure to nonionizing electromagnetic radiation.

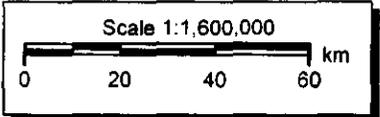
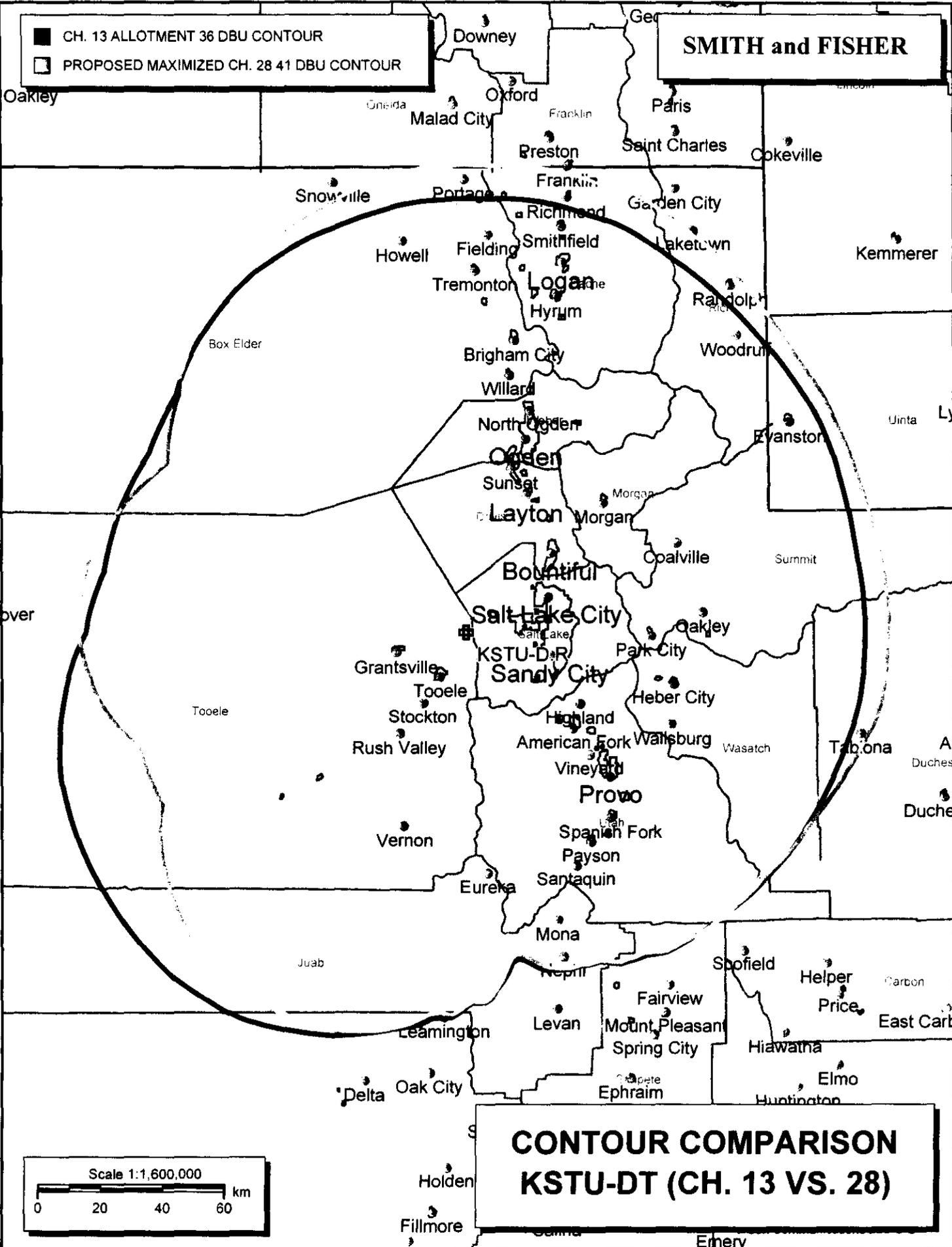
Further, the station owner will take whatever precautionary steps are necessary, such as reducing power or leaving the air temporarily, to ensure that workers operating in the vicinity of the antenna or on nearby towers will not be exposed to excessive nonionizing radiation.

Fox Television Stations, Inc.
KSTU-DT, Salt Lake City, Utah
Facility ID No. 22215
Digital Television Table of Allotments

Exhibit B

■ CH. 13 ALLOTMENT 36 DBU CONTOUR
 □ PROPOSED MAXIMIZED CH. 28 41 DBU CONTOUR

SMITH and FISHER



**CONTOUR COMPARISON
KSTU-DT (CH. 13 VS. 28)**