

**Station KAZT-DT • Prescott, Arizona**  
**Engineering Analysis of Early Transition to DTV Channel 7**

**Statement of Hammett & Edison, Inc., Consulting Engineers**

The firm of Hammett & Edison, Inc., Consulting Engineers, has been retained by KAZT, LLC, licensee of Station KAZT-TV, Phoenix, Arizona, FCC Facility ID No. 35811, to study potential interference and contour conditions related to a proposed early transition to DTV facilities presently authorized for post-transition operation.

**Background**

Station KAZT-TV is presently licensed to operate on analog Channel 7 (FCC File No. BLCT-19820910KF) and pre-transition DTV Channel 25 (FCC File No. BLCDDT-20060828AFH). KAZT-TV holds an FCC construction permit for post-transition DTV operation on Channel 7 (FCC File No. BPCDDT-20080313ACU), operation of which would replace the present analog facility on that channel. The post-transition facility is to employ the present nondirectional transmitting antenna used for the current analog operation. The digital ERP would be 3.2 kilowatts with a radiation center at 2,368 meters above mean sea level and 792 meters above average terrain.

**Proposed Conditions**

It is proposed to cease KAZT-TV analog operation and commence operation on the authorized Channel 7 post-transition DTV facilities. As required in the last paragraph of page six of the FCC Public Notice, dated February 5, 2009, "FCC Announces Procedures Regarding Termination of Analog Television Service On or After February 17, 2009,"

1. An OET-69 interference study has been conducted using pre-transition allocation conditions, yielding results that no interference in excess of the permissible 0.5% would be caused to any other authorized pre-transition operations,
2. A comparison has been made between the analog operation, the existing pre-transition DTV Channel 25 operation, and the proposed post-transition DTV operation on Channel 7. As shown in the attached Figure 1, the post-transition facility maintains the coverage area and population of both the analog and the existing digital pre-transition facilities, and
3. KAZT-TV will commence full, authorized post-transition operation *before* the transition deadline.

**Conclusion**

Based on the OET-69 study result, we conclude that KAZT-TV may commence operation with its authorized DTV Channel 7 post-transition facilities without causing impermissible interference to any



**Station KAZT-DT • Prescott, Arizona**  
**Engineering Analysis of Early Transition to DTV Channel 7**

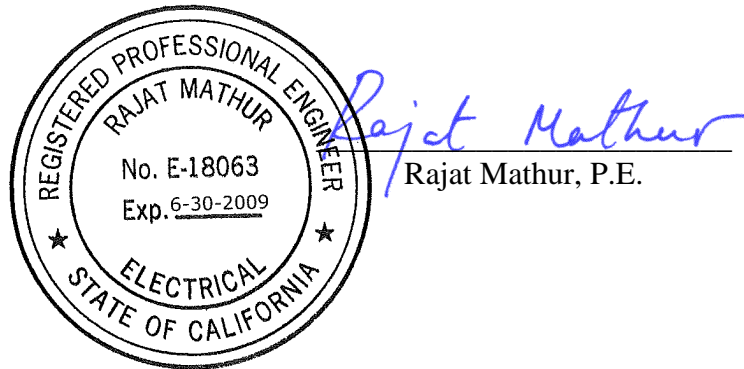
other authorized pre-transition facility, and also that the facility would continue to maintain its existing analog and digital service area and population.

**Figure**

In carrying out these engineering studies, the following attached figure was prepared under my direct supervision:

1. Comparison of pre-transition analog/digital and post-transition digital contours.

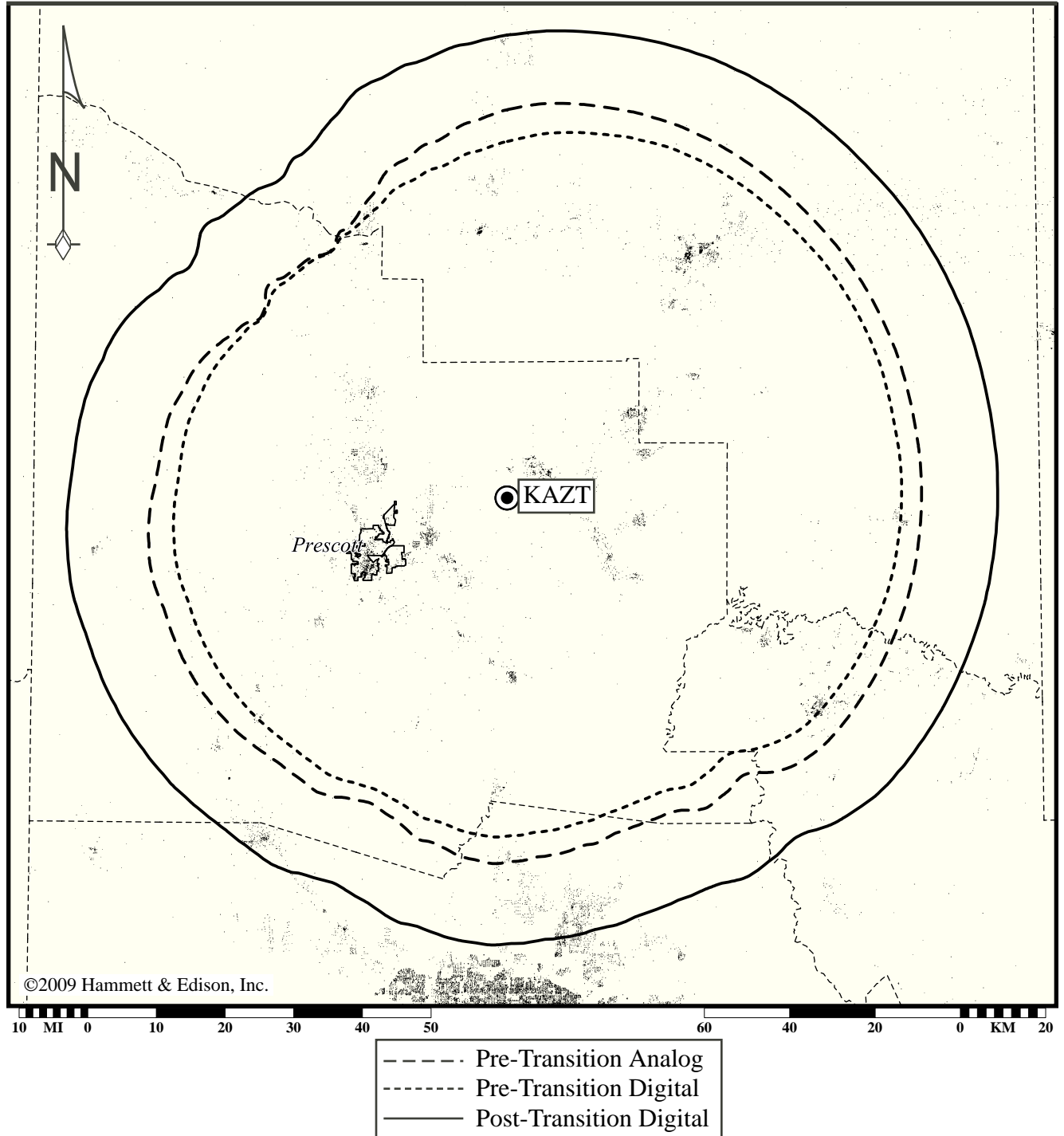
March 11, 2009



Station KAZT-DT • Prescott, Arizona

Comparison of Pre-Transition Analog/Digital and Post-Transition Digital Contours

Pre-Transition Analog Channel 7: F(50,50) 56 dBu, BLCT-19820910KF  
Pre-Transition Digital Channel 25: F(50,90) 39.8 dBu, BLCDT-20060828AFH  
Post-Transition Digital Channel 7: F(50,90) 36 dBu, BPCDT-20080313ACU



Lambert conformal conic map projection. City limits and county lines shown taken from U.S. Census Bureau TIGER/Line 2000 data. Dots represent 2000 U.S. Census Blocks.



**HAMMETT & EDISON, INC.**  
CONSULTING ENGINEERS  
SAN FRANCISCO