

TECHNICAL EXHIBIT
MINOR CHANGE APPLICATION
RADIO STATION KSWG (FM)
WICKENBURG, ARIZONA

MARCH 20, 2003

CH 242C 100 KW 600 M

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Table of Contents

	Technical Narrative
Figure 1	Proposed Transmitter Location
Figure 2	Proposed Antenna and Supporting Structure
Figure 3	Proposed Transmitter Site Coverage Map
Figure 4	Proposed Transmitter Site Allocation Study

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Technical Narrative

The technical exhibit of which this narrative is part was prepared on behalf of a radio station KSWG(FM) assigned to Wickenburg, Arizona. KSWG(FM) is presently licensed to operate on channel 231C3 (BLH-19970128KB) and authorized on channel 242C3 (BPH-20011010AAK).

In MM Docket No. 01-345, RM-10344, the FCC substituted channel 242C for channel 242C3 for KSWG(FM). This minor change application proposes operation on channel 242C with a non-directional effective radiated power (ERP) of 100 kilowatts with an antenna height above average terrain (HAAT) of 600 meters.

The proposal would not be subject to environmental processing in accordance with Section 1.1306. The proposed facility will be located on a tower yet to be constructed. The Federal Aviation Administration (FAA) was notified on the proposed structure on February 22, 2003. Once a Determination of No Hazard is issued, the structure will be registered with the FCC.

Proposed Transmitter Location

The transmitting facility will be located on a proposed structure to be located just east of *Outlaw Hill*.

The location is uniquely described by the following geographic coordinates:

33° 54' 17" North Latitude
112° 58' 22" West Longitude

The proposed site is shown on the map contained in Figure 1. A sketch showing the antenna and proposed supporting structure is shown on Figure 2.

Interference Concerns

The 115 dBu predicted "blanketing" contour of the proposed station would extend radially 4 kilometers from the transmitting site. The applicant recognizes its responsibility to resolve complaints of interference, including blanketing and receiver-induced interference as required by Sections 73.315(b), 73.316(e) and 73.318.

FCC Predicted Coverage Contours

The predicted coverage contours for the proposed operation were calculated in accordance with the provisions of Section 73.313. Pursuant with current FCC practice, the distances to the contours were calculated without consideration given to terrain roughness correction factors.

The average terrain elevations from 3 to 16 kilometers along eight radials evenly spaced at 45 degree intervals were obtained from the U.S.G.S. 3-second terrain database. The terrain elevations were then used in combination with the effective radiated power for determining the distances to coverage contours.

Figure 3 is a map showing the predicted coverage contours. The FCC predicted 70 dBu contour completely encompasses all of the principal community of Wickenburg (2000 U.S. Census).

Allocation Study

Channel 242C at the proposed site will satisfy the Commission's minimum separation distance requirements, specified in Section 73.207(b) of the Rules, to all assignments and allotments.

Radiofrequency Electromagnetic Field Exposure

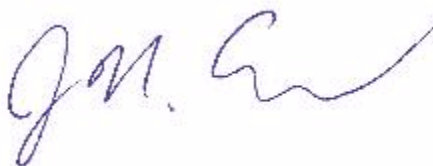
The proposed facility has been evaluated in terms of potential radiofrequency electromagnetic field exposure at ground level in accordance with OST Bulletin No. 65, *Evaluating Compliance with FCC Specified Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields*.¹ The power density at the base of the tower was calculated using the appropriate procedure contained in Section 2, Supplement A, *Additional Information for Radio and Television Broadcast Stations*, of the Bulletin.

For the calculation, a combined horizontal and vertical polarized effective radiated power of 200 kilowatts was employed with a radiation center of 570 meters above ground level. Using a "worst-case" relative field value for a 1-bay antenna, it is calculated that the maximum power density at ground level resulting from this facility is less than 0.005 mW/cm². This is less than 2.5 percent of the maximum Commission guideline value in an uncontrolled

¹ OET Bulletin 65, Second Edition 97-01, August, 1997.

environment for a FM radio station.² There are no other know facilities at the proposed site.

When it becomes necessary for workers to ascend the tower, appropriate measures, such as reduction or shut down of power if necessary, shall be taken to ensure that the human exposure to radiofrequency electromagnetic will not exceed the FCC guidelines.

A handwritten signature in blue ink, appearing to read 'J.N. Edwards', with a stylized flourish at the end.

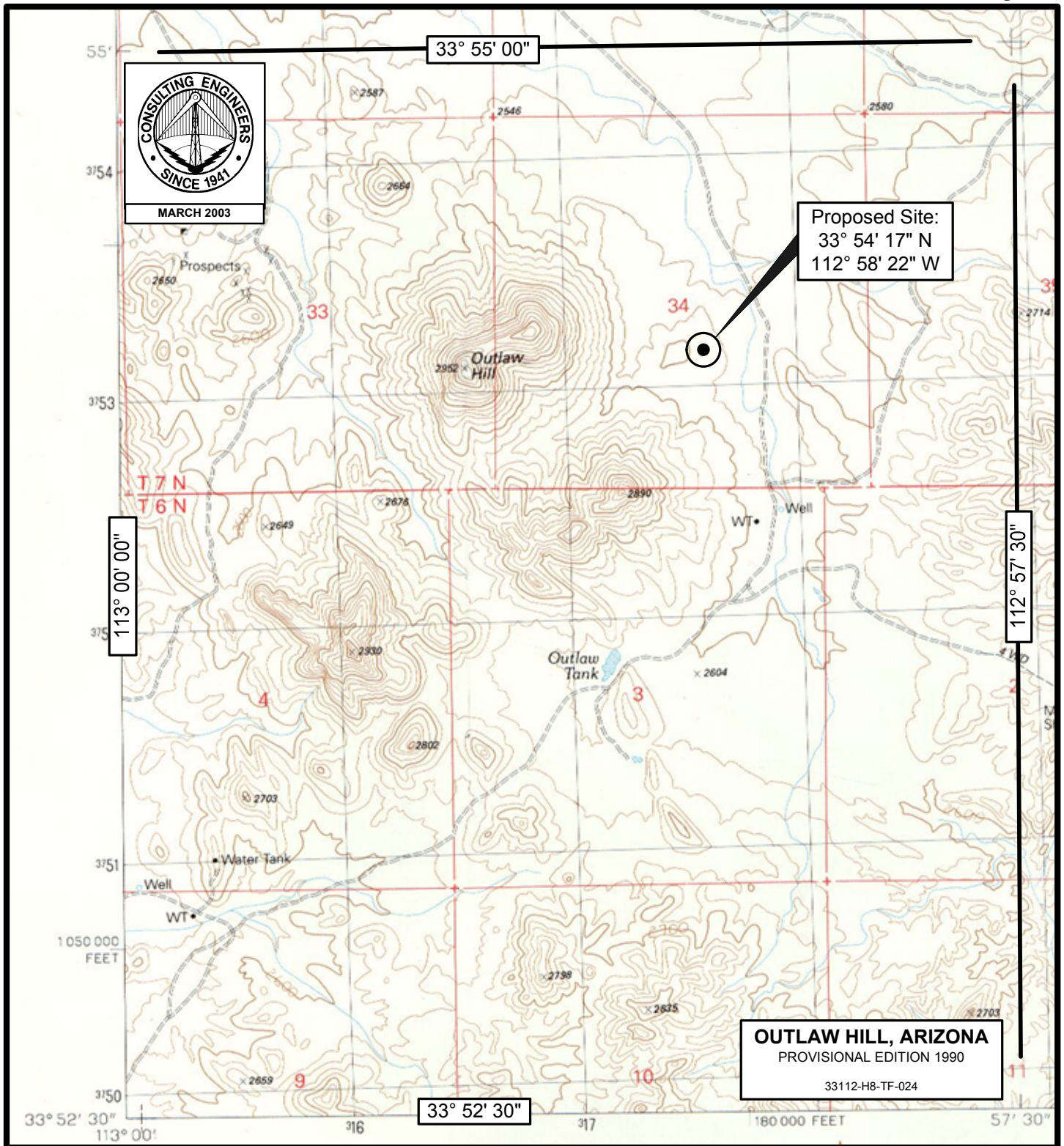
Jonathan N. Edwards

du Treil, Lundin & Rackley, Inc.
201 Fletcher Avenue
Sarasota, Florida 34237
941.329.6000

March 20, 2003

² The FCC maximum guideline for a FM broadcast station in an uncontrolled environment is 0.2 mW/cm².

Figure 1



PROPOSED TRANSMITTER LOCATION

RADIO STATION KSWG(FM)

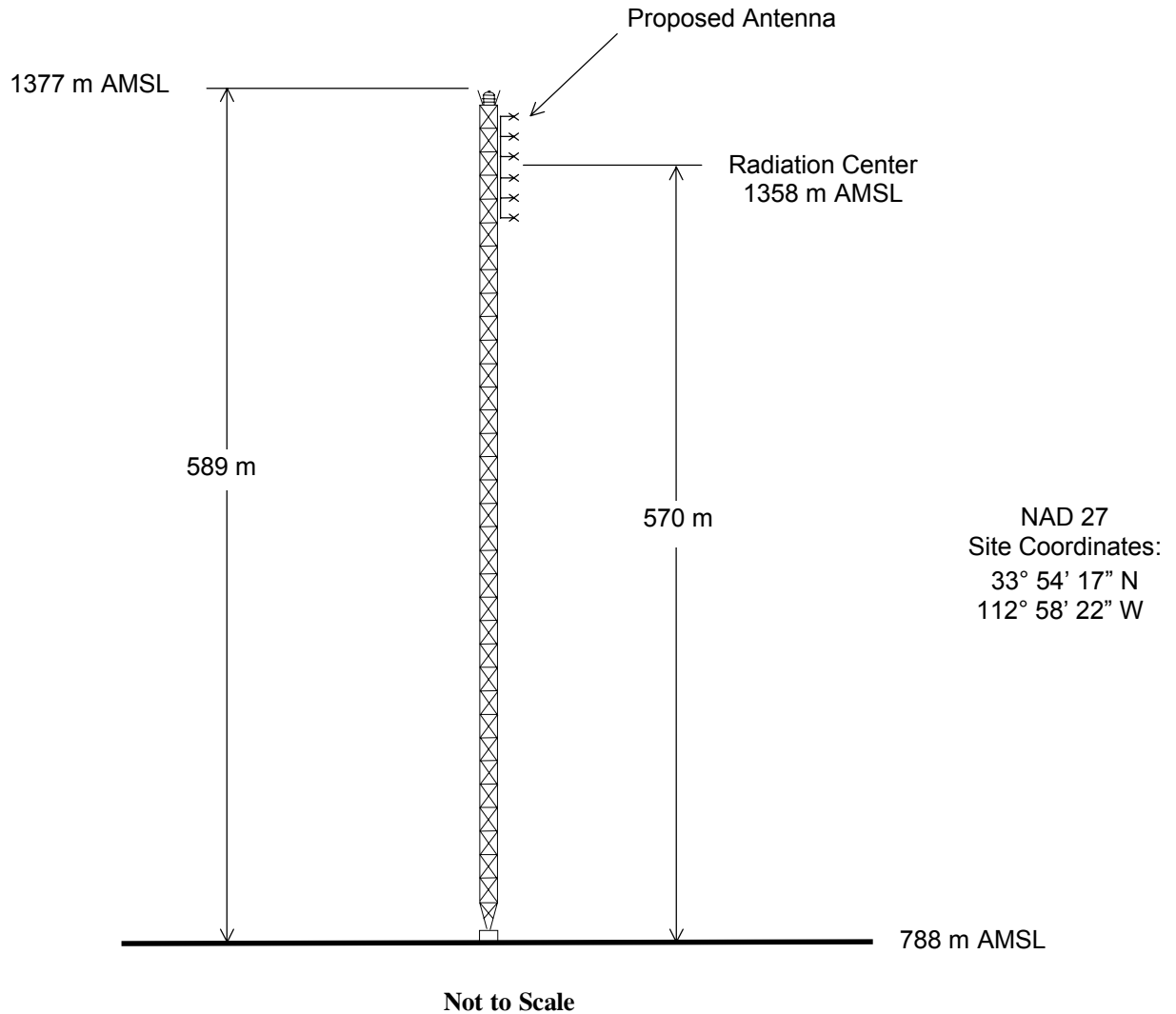
WICKENBURG, ARIZONA

CH 242C 100 KW 600 M

du Treil, Lundin & Rackley, Inc. Sarasota, Florida



FAA Notification Filed



PROPOSED ANTENNA AND SUPPORTING STRUCTURE

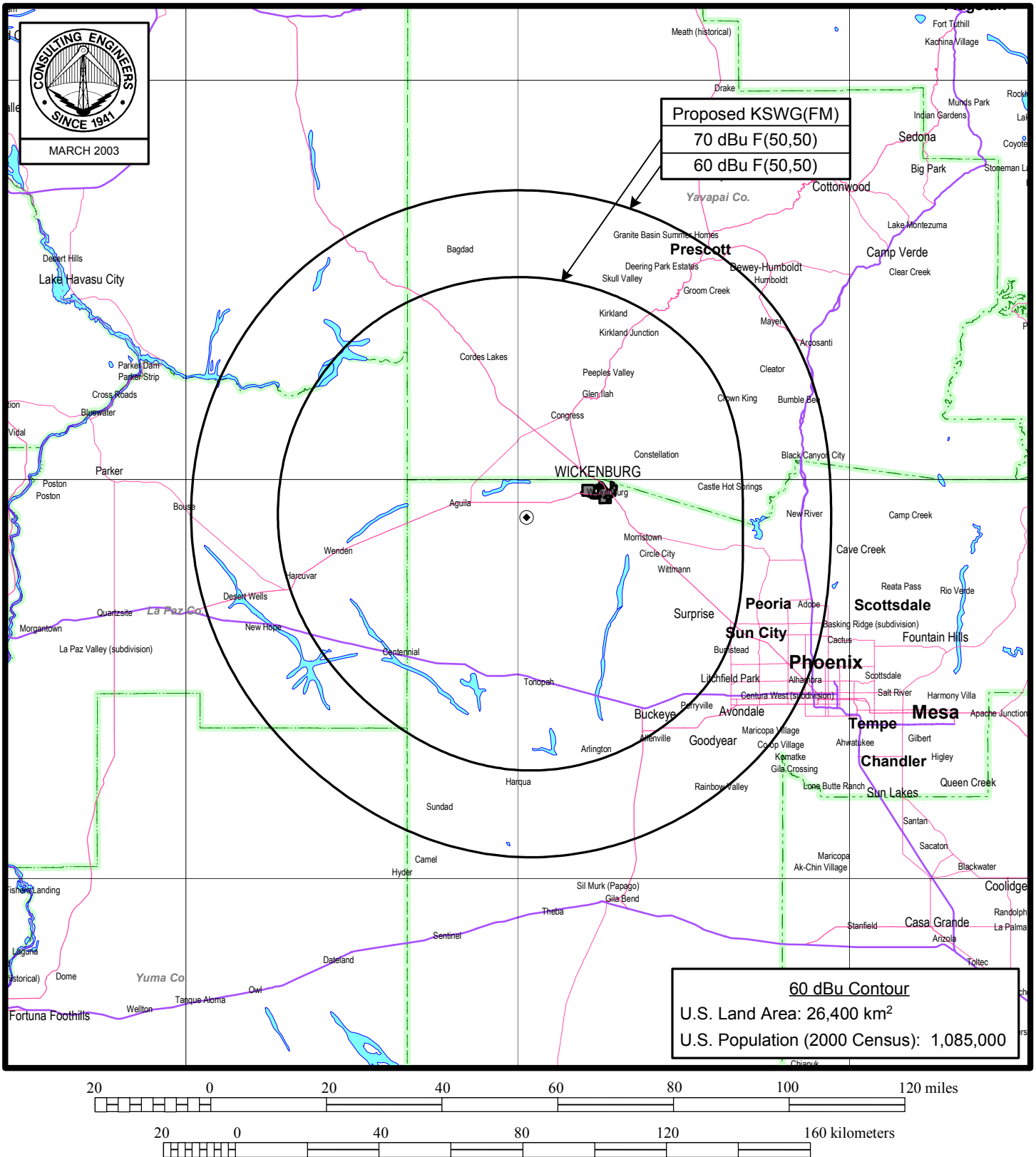
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Figure 3



PREDICTED F(50,50) COVERAGE CONTOURS

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Figure 4

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Channel 242C Allocation Study

33° 54' 17" North Latitude
112° 58' 22" West Longitude

Call Id	City St	File Status Num	Channel Freq	ERP HAAT	DA Id	Latitude Longitude	73 215	Bear	Dist. (km)	Req. min
KZGL 51642	COTTONWOOD AZ	BLH LIC C 19940505KD	240C1 95.9	9.0 760	N	34-41-14 112-07-00	N	41.9	117.24	105.0
94988	SALOME AZ	VAC C	241A 96.1	0.0	N	33-46-54 113-36-42	N	257.1	60.69	165.0
<i>(to Channel 270A per MM Docket No. 01-345)</i>										
KLPX 2745	TUCSON AZ	BLH LIC C 19900503KD	241C 96.1	100 595	N	32-14-56 111-06-59	N	136.3	252.52	241.0
	WICKENBURG AZ	RM RSV C 10344	242C 96.3	0.0		33-54-15 112-59-02		266.6	1.03	
2/23/02: sent to Mexico 2/25/02 Referred to Mexico by letter dated June 3, 2002. approved by Mexico 8/1/02, Upgrade requires substitution at Salome, AZ.										
KSWG 11216	WICKENBURG AZ	BPH CP C 20011010AAK	242C3 96.3	6.4 197	Y 41331	33-55-34 112-47-40	Y	81.7	16.66	
KRIM-L 134059	PAYSON AZ	BNPL CP C 20010611AEQ	242L1 96.3	0.008 101	N	34-14-34 111-18-34	N	75.7	158.05	130.0
KKLZ 40757	LAS VEGAS NV	BLH LIC C 19841107KY	242C 96.3	100.000 358	N	36-00-29 115-00-20	N	322.2	298.19	290.0
XHITAF 94542	SONOITA SO	C	243B 96.5	0.390 -53	N	31-51-50 112-50-55	N	177.0	227.20	215.0
XHITAF 94542	SONOITA SO	C	243B 96.5	0.0	N	31-51-52 112-41-30	N	173.3	228.35	215.0
KRCY-F 77754	LAKE HAVASU AZ	BLH LIC C 19991217ACF	244C2 96.7	1.05 825	Y 14838	34-33-06 114-11-37	N	303.0	133.43	105.0
KMXP 6361	PHOENIX AZ	BMLH LIC C 19941024KC	245C 96.9	100 475	N	33-20-03 112-03-36	N	126.6	105.73	105.0