

TECHNICAL EXHIBIT
APPLICATION FOR CONSTRUCTION PERMIT
RADIO STATION KPCW(FM)
FACILITY ID 13482
PARK CITY, UTAH
CH 220A 0.12 KW (MAX-DA) 647 M

Technical Narrative

This technical exhibit supports an application for construction permit for station KPCW(FM) on Channel 220A assigned to Park City, Utah. It is proposed to change the KPCW(FM) transmitter site, install a directional antenna and become Section 73.215 classified to KTCE(FM) at Payson, Utah. Contingent applications are also being filed on the same date to modify station KTCE(FM)¹ and KOHS(FM) on Channel 219A at Orem, Utah² pursuant to Section 73.3517(e) of the Commission's Rules.

¹ KTCE(FM) at Payson, Utah in a contingent application is changing it Channel to 221A from 222A as ordered by the Report and Order in MB Docket No. 02-14.

² KOHS(FM) at Orem, Utah in a contingent application is simply specifying authorization pursuant to Section 73.215 of the Commission's Rules.

Proposed Transmitter Location

The transmitting facility will be located on an existing tower located atop *Bald Mountain*. The location is uniquely described by the following geographic coordinates:

40° 36' 34" North Latitude
111° 28' 49" West Longitude

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

Blanketing Interference Concerns

The 115 dBu predicted "blanketing" contour of the proposed station would extend radially less than 0.2 kilometer from the transmitting site. No interference problems are expected; however the applicant recognizes its responsibility to resolve complaints of blanketing interference as required by Section 73.318.

Coverage Contours

The FCC predicted coverage contour for the proposed FM station antenna was calculated in accordance with Section 73.313. No consideration was given to terrain roughness correction factors. The average elevations from 3 to 16 kilometers along 8 radials evenly spaced at 45-degree intervals were obtained from the U.S.G.S. 3-second digitized terrain database. The antenna radiation center heights above average terrain in the

individual directions and the ERP were used in conjunction with the F(50,50) curves of Section 73.333 (Figure 1) to determine distances to contour.

The coverage map in Figure 3 shows the proposed FM station's 60 dBu coverage contour. As can be seen, the proposed 60 dBu contour encompasses the community of Park City.

Proposed Site Allocation Study

Channel 220A at the proposed site will satisfy the Commission's minimum separation distance requirements, specified in Section 73.207(b) of the Rules, to all stations and assignments except to the pending application for KTCE(FM) on Channel 221A at Payson, Utah.

Station KTCE(FM) is filing a contingent application and seeking Section 73.215 processing to this instant application. As shown by the map contained in Sheet 2 of Figure 4, no prohibited contour overlap from the herein proposed KPCW(FM) and KTCE(FM) is predicted.

Directional Antenna Pattern Envelope

In order to protect KTCE(FM) at Payson, KPCW(FM) proposes the use of a directional antenna. Figure 5 contains a plot of the proposed directional antenna radiation pattern envelope relative field, calculated in accordance with Section 73.316(c)(2-3) of the Commission's Rules. The actual directional antenna to be used will be designed to optimally meet this pattern envelope. The ratio of the pattern envelope maximum to minimum radiation does not exceed 15 dB nor does the radiation vary more than 2 dB per 10° of azimuth, in accordance with Section 73.316(b). The antenna will be mounted on the proposed tower in accordance with the specific instructions of the antenna manufacturer. No other antennas will be mounted on the tower at the same level as the proposed directional antenna, nor will the proposed directional antenna be mounted on the tower at a distance from any other antenna such that proper operation of the directional antenna would be hindered. Any additional information required by Section 73.316 will be supplied with the application for license.

Radiofrequency Electromagnetic Field Exposure

The proposed FM facilities were evaluated in terms of potential radio frequency (RF) energy exposure at ground level to workers and the general public. Using a "worst-case" relative field value of 1.0 along with a combined effective radiated power of 0.24 kilowatt. The proposed power density at the base of the structure is calculated to be 0.022 mW/cm², which is 11 percent of the recommended limit of 0.2 mW/cm² for FM channels,

applicable to general population/uncontrolled exposure areas. There is no other known nearby high powered emitters.

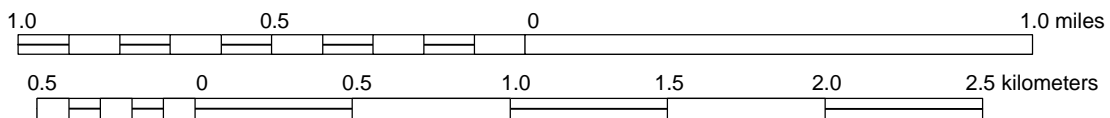
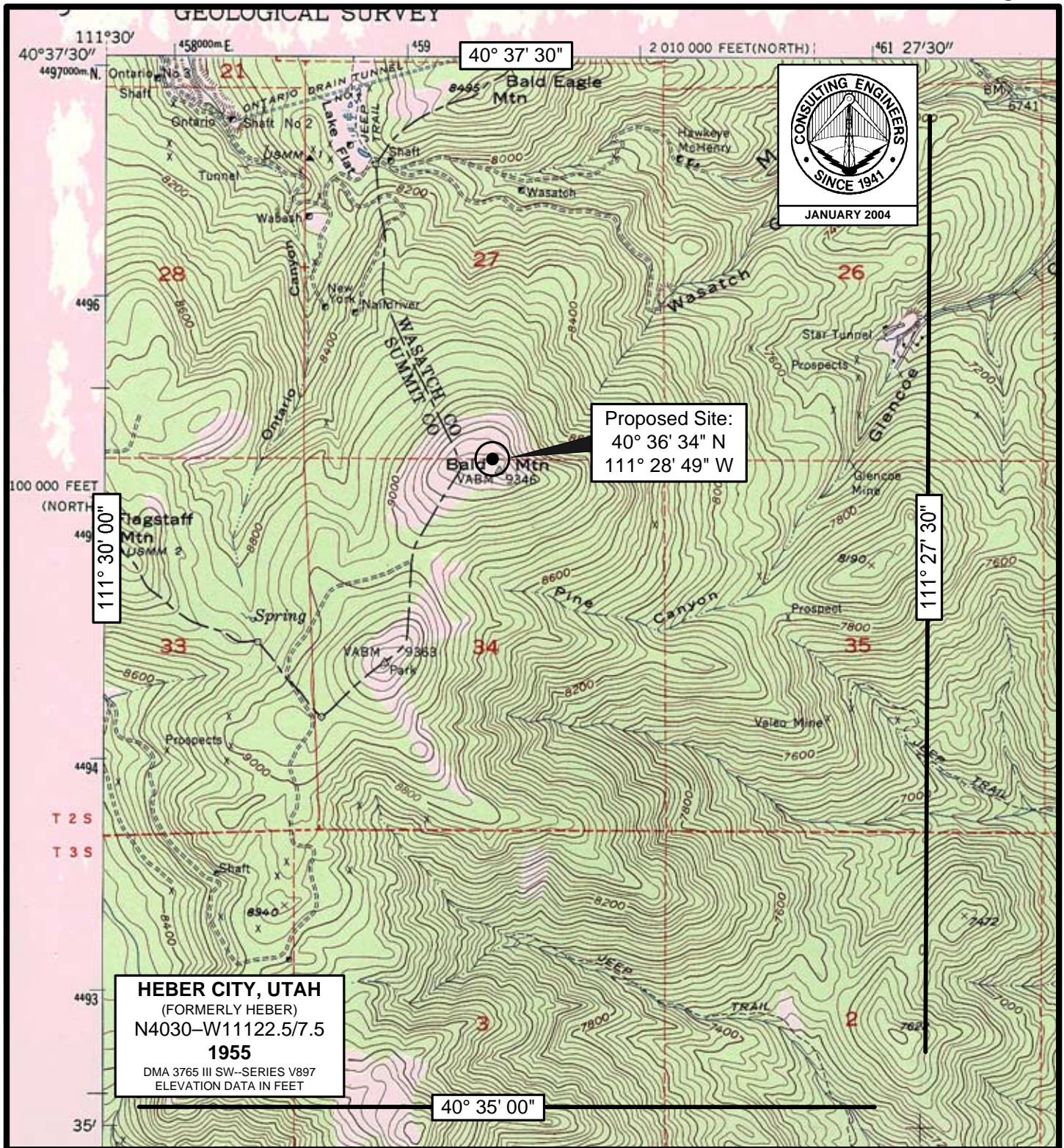
Access to the transmitting site is restricted and appropriately marked with warning signs. In the event that workers or other authorized personnel enter restricted areas or climb the tower, appropriate measures will be taken to assure worker safety with respect to radio frequency radiation exposure. Such measures include reducing the average exposure by spreading out the work over a longer period of time, wearing "accepted" RFR protective clothing and/or RFR exposure monitors or scheduling work when the stations are at reduced power or shut down.

Charles A. Cooper

du Treil, Lundin & Rackley, Inc.
201 Fletcher Avenue
Sarasota, Florida 34237
(941) 329-6000

February 6, 2004

Figure 1



PROPOSED TRANSMITTER SITE

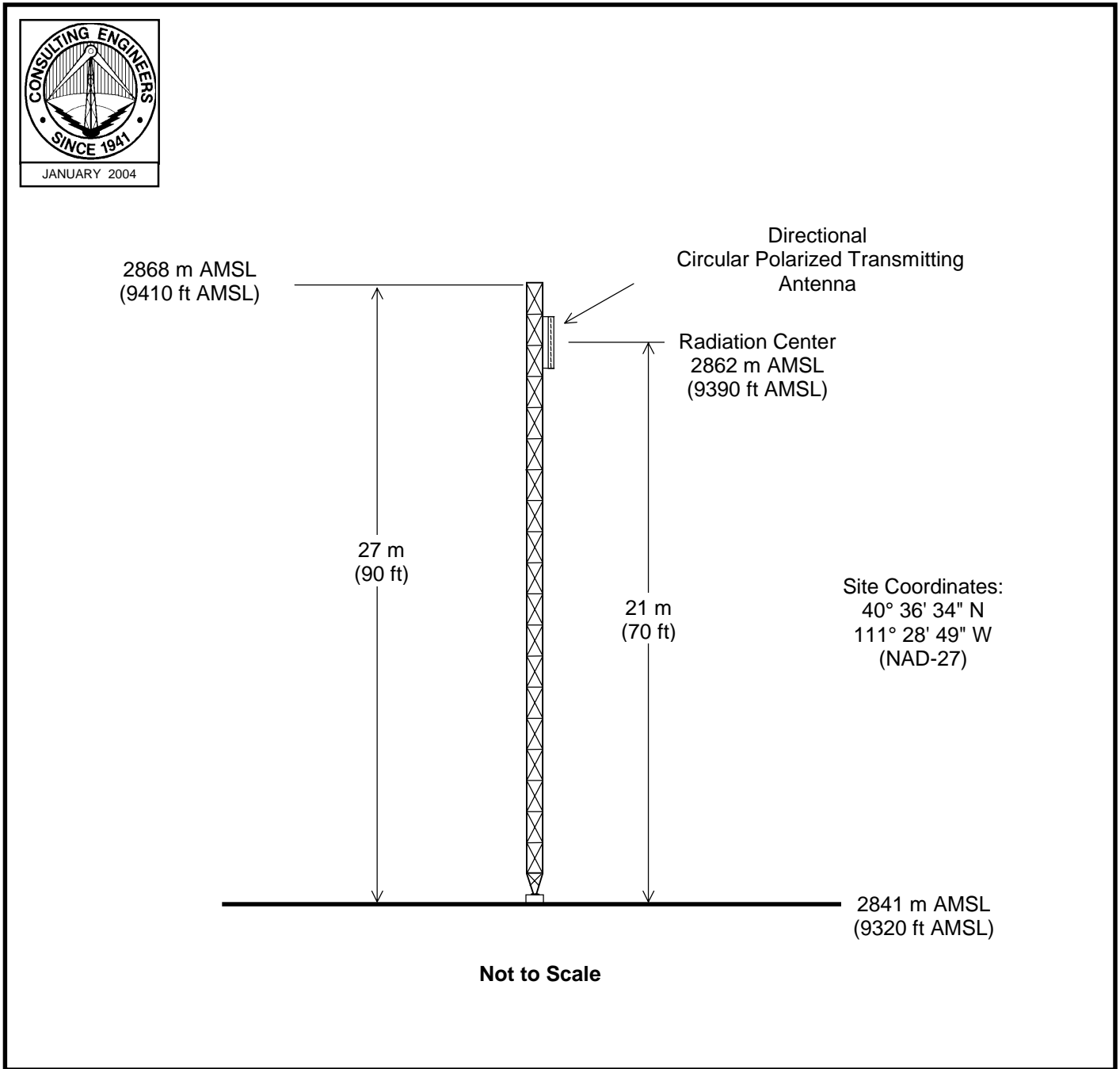
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Figure 2



PROPOSED ANTENNA AND SUPPORTING STRUCTURE

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Figure 3



FCC PREDICTED COVERAGE CONTOURS

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FM Allocation Study

Proposed Site: 40° 36' 34" North Latitude
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Channel 220A

Call Id	City St	File Status Num	Channel Freq	ERP HAAT	DA Id	Latitude Longitude	73 215	Bear	Dist. (km)	Req. (km)
KUFR	SALT LAKE	C BLED	219 A	0.22	N	40-46-09	N	297.5	38.66	44.2
20716	UT LIC	C 19891222KB	91.7	127		111-53-12				

(No prohibited overlap to KUFR - See Sheet 2 of Figure 4).

KOHS	OREM	BLED	219 A	1.75	N	40-17-32	N	206.0	39.19	53.9
1169	UT LIC	C 19920102KA	91.7	111		111-40-58				

(No prohibited overlap to KOHS - See Sheet 2 of Figure 4).

KPCW	PARK CITY	BMLD	220 A	0.250	N	40-40-59	Y	336.6	8.91	
13482	UT LIC	C 20031201AO	91.9	341		111-31-20				

(Applicant's licensed facility.)

	PAYSON	RM	221 A	0.000		40-03-20		205.7	68.26	49.0	72.0
	UT ADD	C bg-4	92.1			111-49-43			-3.74	Short	

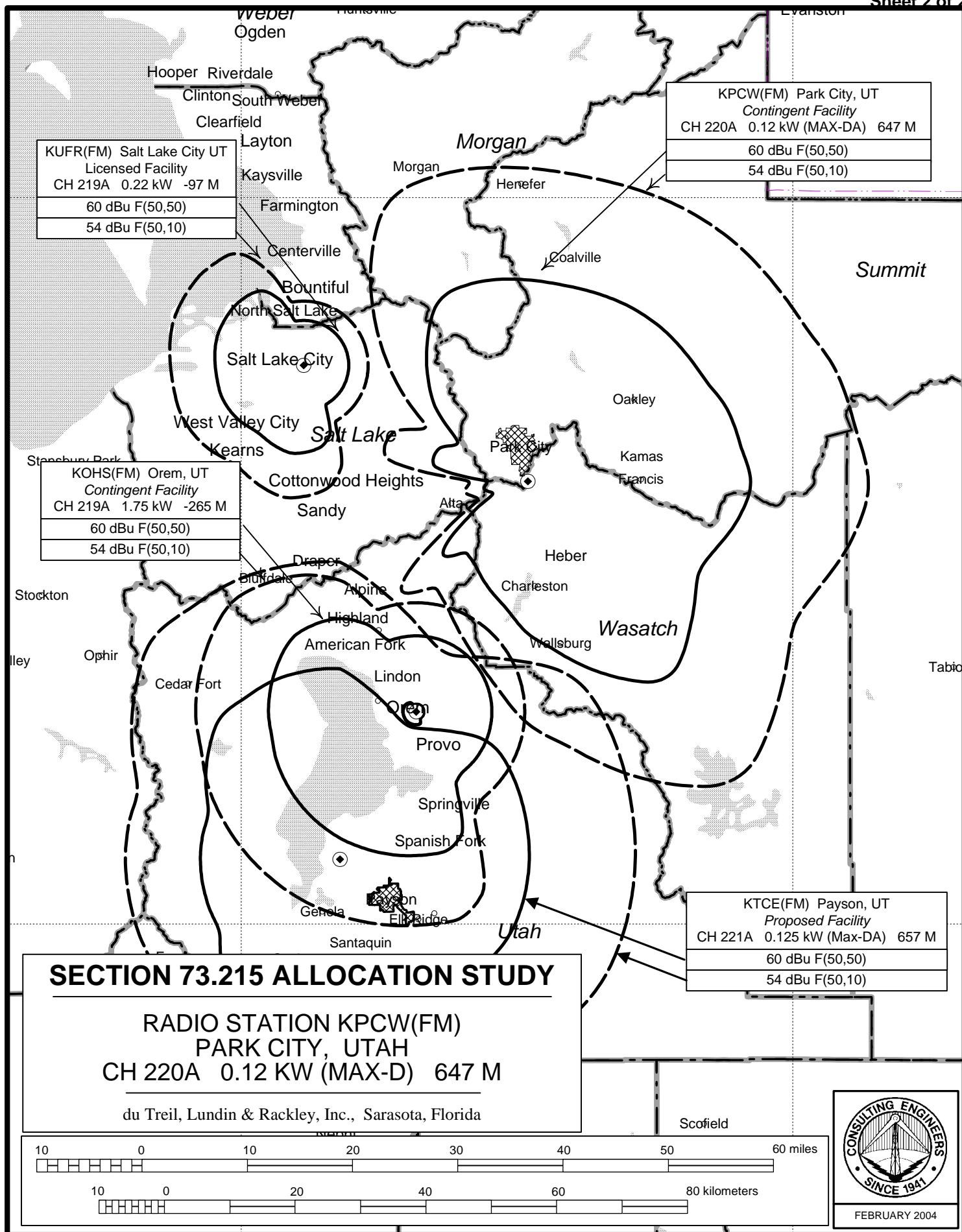
(Application for construction permit to cover this allocation for Channel 221A at Payson authorized in MB Docket No. 02-14 is filed as a contingent application. See next record.)

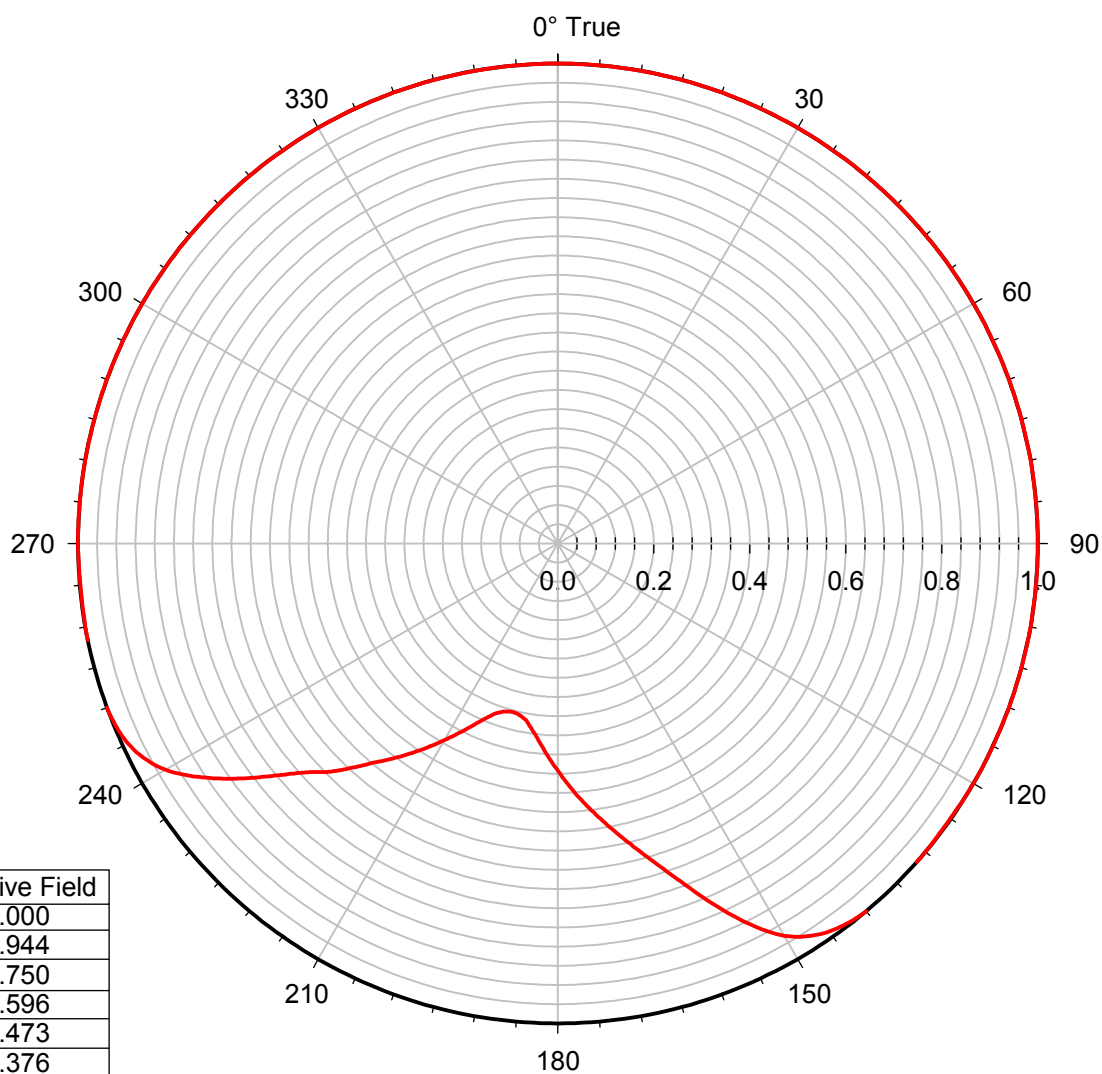
KTCE	PAYSON		221A	0.125	N	40-05-21	N	206.6	64.61	49.0	72.0
43339	UT	APPLICATION	92.1	659		111-49-15					

(Contingent application for Channel 221A at Payson.)

KUUU	TOOELE	BLH	221C3	9.7		40-37-40		271.6	91.93	72.0	89.0
37876	UT LIC	C 19990511KC	92.1	162		112-33-59					

KCUA	COALVILLE	BLED	223C3	20	Y	40-59-45	Y	6.0	43.15	36.0	42.0
13483	UT LIC	C 20020826AAT	92.5	90	43662	111-25-36					





PERMISSABLE DIRECTIONAL RELATIVE FIELD PATTERN ENVELOPE

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