

TECHNICAL EXHIBIT  
AMENDMENT TO PENDING APPLICATION  
RADIO STATION KOTB(FM)  
EVANSTON, WYOMING  
CH 291C 100 KW 598 M

Technical Narrative

The technical exhibit of which this narrative is part was prepared as to amend a pending application for station KOTB(FM) in Evanston, Wyoming.<sup>1</sup> KOTB(FM) has an application pending for a "one-step" upgrade to Channel 291C from its licensed Channel 291C3 facility. This amendment seeks to modify the proposed transmitter site location, increase ERP, and decrease antenna height above average terrain (HAAT).

The proposal would not be subject to environmental processing in accordance with Section 1.1306. It is believed that this proposal conforms to all applicable rules and regulations of the FCC.

Proposed Transmitter Location

A map showing the transmitter site location is provided in Figure 1. A sketch showing the proposed antenna and supporting structure is shown on Figure 2. A notification of the tower structure has been filed with the FAA.

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<sup>1</sup> See FCC License Number: BPH-20010306ABO.

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Interference Concerns

The 115 dBu predicted "blanketing" contour of the proposed station would extend radially 4 kilometers from the transmitting site. No interference is expected, as the proposed transmitter site is located in a rural area. However, 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.

Coverage Contours

The predicted coverage contours for the proposed operation were calculated in accordance with the provisions of Section 73.313. In accordance with current FCC practice, the distances to the contours were calculated without consideration given to terrain roughness correction factors. The average elevations from 3 to 16 kilometers along 36 radials evenly spaced at 10-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 contours.

Figure 3 is a map showing the predicted coverage contours. The map indicates that the FCC predicted 70-dBu coverage contour entirely encompasses all of the Evanston city limits (2000 U.S. Census).

Allocation Study

Figure 4 is an allocation study for channel 291C at the proposed site. The figure contains a tabulation of actual and required separation distances from other pertinent stations and allotments. The proposed site meets the FCC's minimum separation requirements, specified in Section 73.207(b) of the Commission's Rules, to all assignments and stations except to KLCY-FM on Channel 290A at Vernal, Utah.

KLCY-FM on Channel 290A assigned to Vernal, Utah has filed a contingent application for operation on Channel 288C2, which may be granted simultaneously with the grant of the instant application.<sup>2</sup>

Radiofrequency Electromagnetic Field Exposure

Ground level radiofrequency electromagnetic field exposure measurements will be completed after construction and submitted with the application for license.

Charles A. Cooper

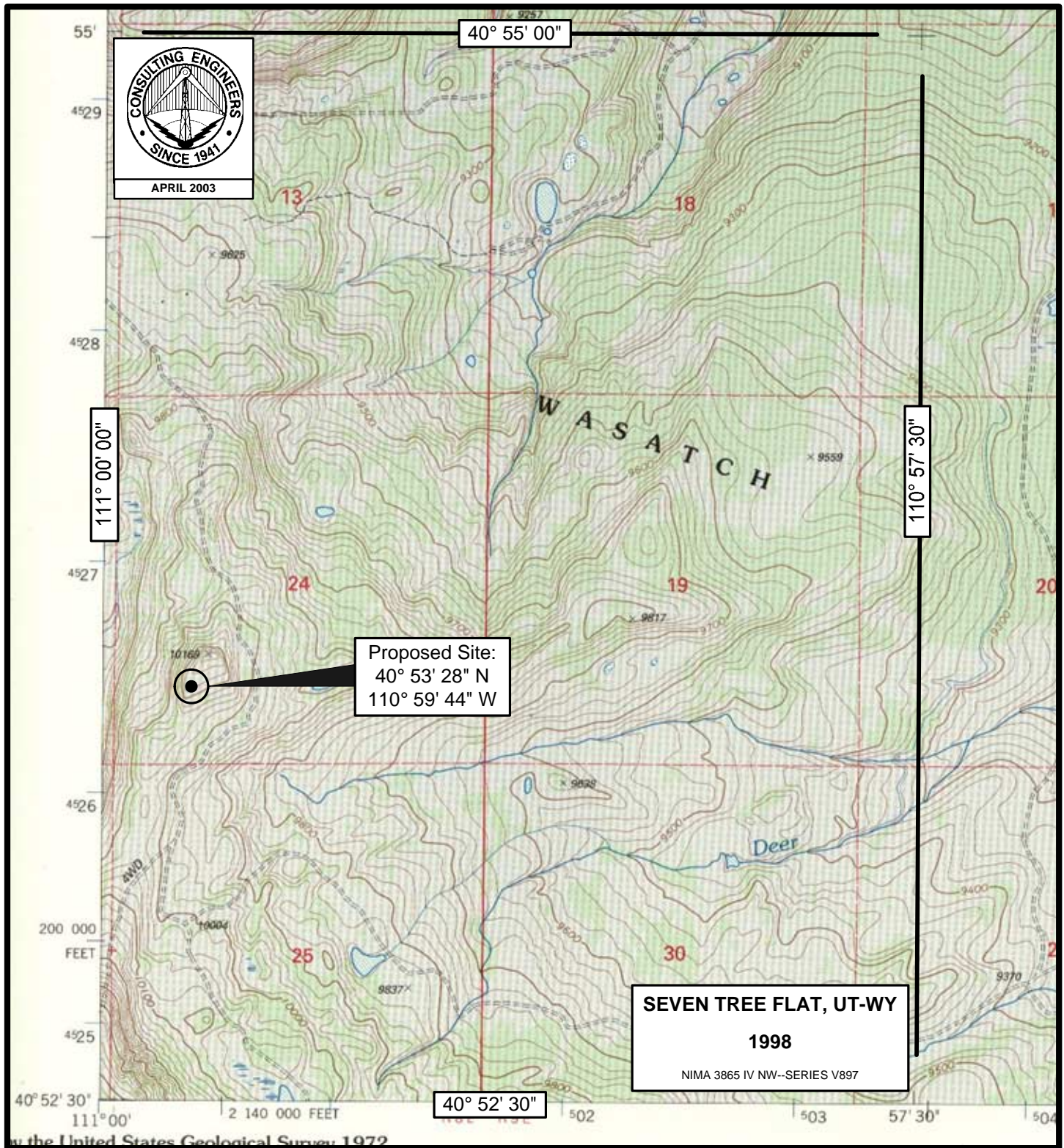
April 15, 2003

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

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<sup>2</sup> See FCC File Number BPH-20010306ABN.

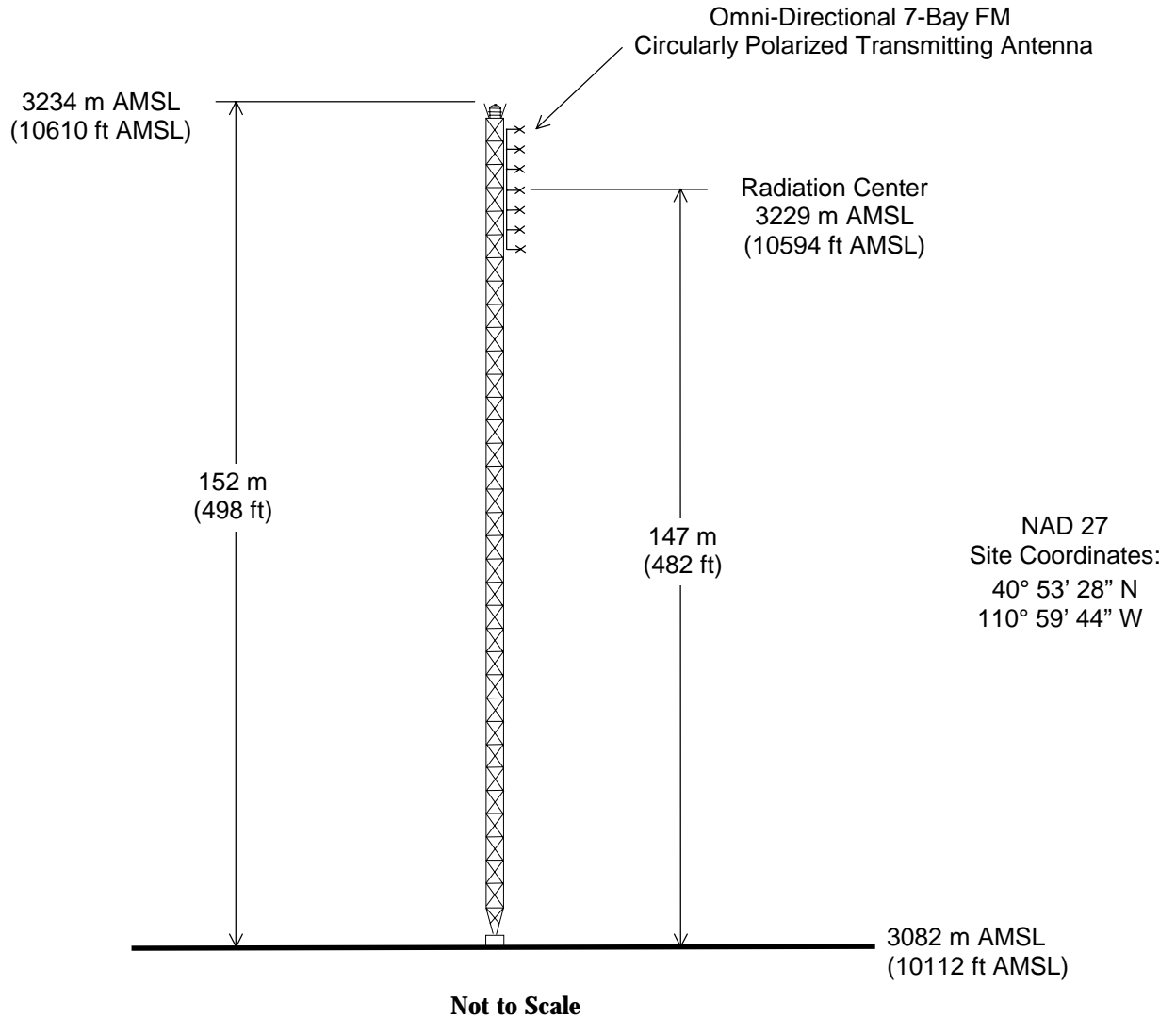
Figure 1



## PROPOSED TRANSMITTER LOCATION

FM STATION KOTB  
EVANSTON, WYOMING  
CH 291C 100 KW 598 M  
du Treil, Lundin & Rackley, Inc. Sarasota, Florida

Figure 2



## PROPOSED ANTENNA AND SUPPORTING STRUCTURE

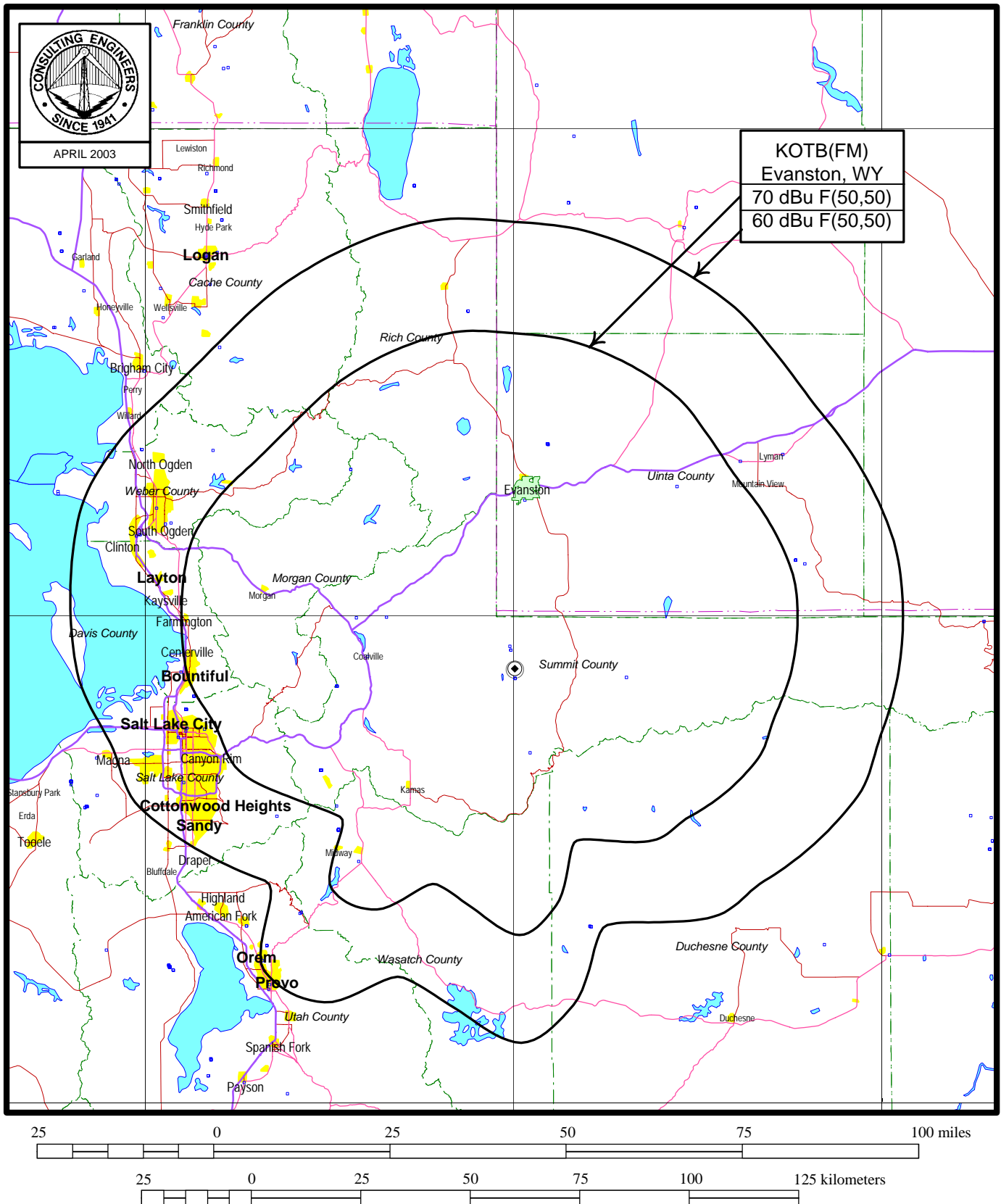
FM STATION KOTB

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Figure 3



## FCC PREDICTED COVERAGE CONTOUR

RADIO STATION KOTB(FM)

EVANSTON, WYOMING

CH 291C 100 KW 598 M

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



Figure 4

CDBS FM SEPARATION STUDY - PROPOSED SITE

Job Title: KOTB(FM), Evanston, WY  
 Channel: 291 C

Separation Buffer: 100 km  
 Coordinates: 40-53-28 N 110-59-44 W

Call Id	City St	File Status	Channel Num	ERP Freq	HAAT	DA Id	Latitude Longitude	73 215	Bear	Dist. (km)	Req. (km) 73.207
KYFO-F 5176	OGDEN UT	LIC C	19981125KD	238 C1	100.0	N	41-14-59	N	291.4	111.64	41.0
				95.5	219		112-14-11				

KLCY-F 2935	VERNAL UT	BPH APP C	20010306ABN	288 C2	3.3	N	40-32-16	Y	109.4	116.36	105.0
				105.5	518		109-41-57				

KCPX 69555	CENTERVILLE UT	BLH LIC C	19961029KB	289 C	25.5	N	40-39-35	N	256.2	104.99	105.0
				105.7	1111		112-12-05				

(Separation distance rounds to 105 kilometers. No allocation issue.)

KCPX 69555	CENTERVILLE UT	BPH CP C	20011206AAU	289 C	25.0	N	40-39-34	N	256.2	105.00	105.0
				105.7	1140		112-12-05				

KLCY-F 2935	VERNAL UT	BLH LIC C	19881110KA	290 A	3.0	N	40-24-50	N	113.7	129.94	165.0
				105.9	126		109-35-34				

(A contingent application has been filed to reallocate station KLCY-FM to Channel 288C2 from Channel 290A. Therefore, this instant application is contingent upon grant of KLCY-FM application).

THAYNE WY	RM VAC C	9458	290 C1	0.0	N	42-46-27	N	351.8	211.41	209.0
				105.9		111-22-02				

KOTB 20029	EVANSTON WY	BPH APP C	20010306ABO	291 C	89.0	N	40-52-16	N	180.0	2.22
				106.1	644		110-59-43			

(Instant application being amended.)

KOTB 20029	EVANSTON WY	BLH LIC C	19970926KD	291 C3	0.38	N	41-21-11	N	8.1	51.83
				106.1	464		110-54-28			

(Applicant's licensed facility.)

KOSY-F 63536	SPANISH FOR UT	BLH LIC C	19980929KC	293 C	45.0	N	40-16-50	N	229.7	104.51	105.0
				106.5	841		111-56-06				

(Separation distance rounds to 105 kilometers. No allocation issue.)

KOSY-F 63536	SPANISH FOR UT	BMPH CP C	20011206AAT	293 C	25.0	N	40-39-34	N	256.2	105.00	105.0
				106.5	1140		112-12-05				