

**AUCTION 83 LONG FORM
FACILITY ID #153612 (MARIANNA, AR)
BNPFT-20030317EHZ**

This long form application requests a minor amendment of the original short form application to a new site and HAAT. Both qualify as minor changes. The proposed site is not within 39 km of any Appendix A market grid or located in any of the top 50 ARB metro markets. Therefore, no LPFM preclusion study is required. The translator will serve as a fill in for station KTRQ (facility ID#67701) at Colt, AR.

Allocation discussion:

All exhibits were developed utilizing the FCC 30 second terrain database.

Allocation exhibits are provided as follows:

- E1 Channel study
 - E2 60 dBus
 - E3 Closest Appendix A markets plot.
- ASR

A channel study is included as E1 demonstrating compliance with 74.1204. A plot of the proposed and short form 60 dBus contours is provided as E2 showing that they overlap and that the proposed 60 dBus is entirely contained within the primary station KTRQ's 60 dBus.

RF Exposure Calculation:

The RF contribution of the proposed translator was calculated using a worst case F factor of 1.0 for the Bext TFC2K single bay circularly polarized antenna and the formula provided below to be 1.93 $\mu\text{Watts}/\text{cm}^2$ or 0.97% of the maximum permissible 200 $\mu\text{Watts}/\text{cm}^2$ exposure for general population/uncontrolled exposure. This is well below the 5% threshold requiring consideration.

$$S \text{ (RF in } \mu\text{Watts}/\text{cm}^2) = \frac{33.4 (F^2 - \text{Vert Factor}) \times (\text{H ERP} + \text{V ERP in Watts})}{R^2 \text{ (distance to radiation center in meters} - 2 \text{ m)}}$$

It is concluded that the proposed facility complies with Commission RF radiation limits.


60 dBu contour and HAAT:

N. Latitude = 34-51-17 W. Longitude = 90-55-02

HAAT and Distance to Contour,
FCC, FM 2-10 Mi, 51 pts Method - FCC 30 SEC

Azi.	AV EL	HAAT	dBk	60-F5
000	60.0	98.0	-6.02	12.74
030	58.4	99.6	-6.02	12.84
060	59.3	98.7	-6.02	12.78
090	54.9	103.1	-6.02	13.06
120	60.1	97.9	-6.02	12.73
150	58.8	99.2	-6.02	12.81
180	52.8	105.2	-6.02	13.19
210	50.5	107.5	-6.02	13.33
240	51.5	106.5	-6.02	13.27
270	51.3	106.7	-6.02	13.28
300	56.0	102.0	-6.02	12.99
330	59.0	99.0	-6.02	12.80

Ave El= 56.05 M HAAT= 101.95 M AMSL= 158.0


Charles M. Anderson, March 1269+, 2013

E1 CHANNEL STUDY

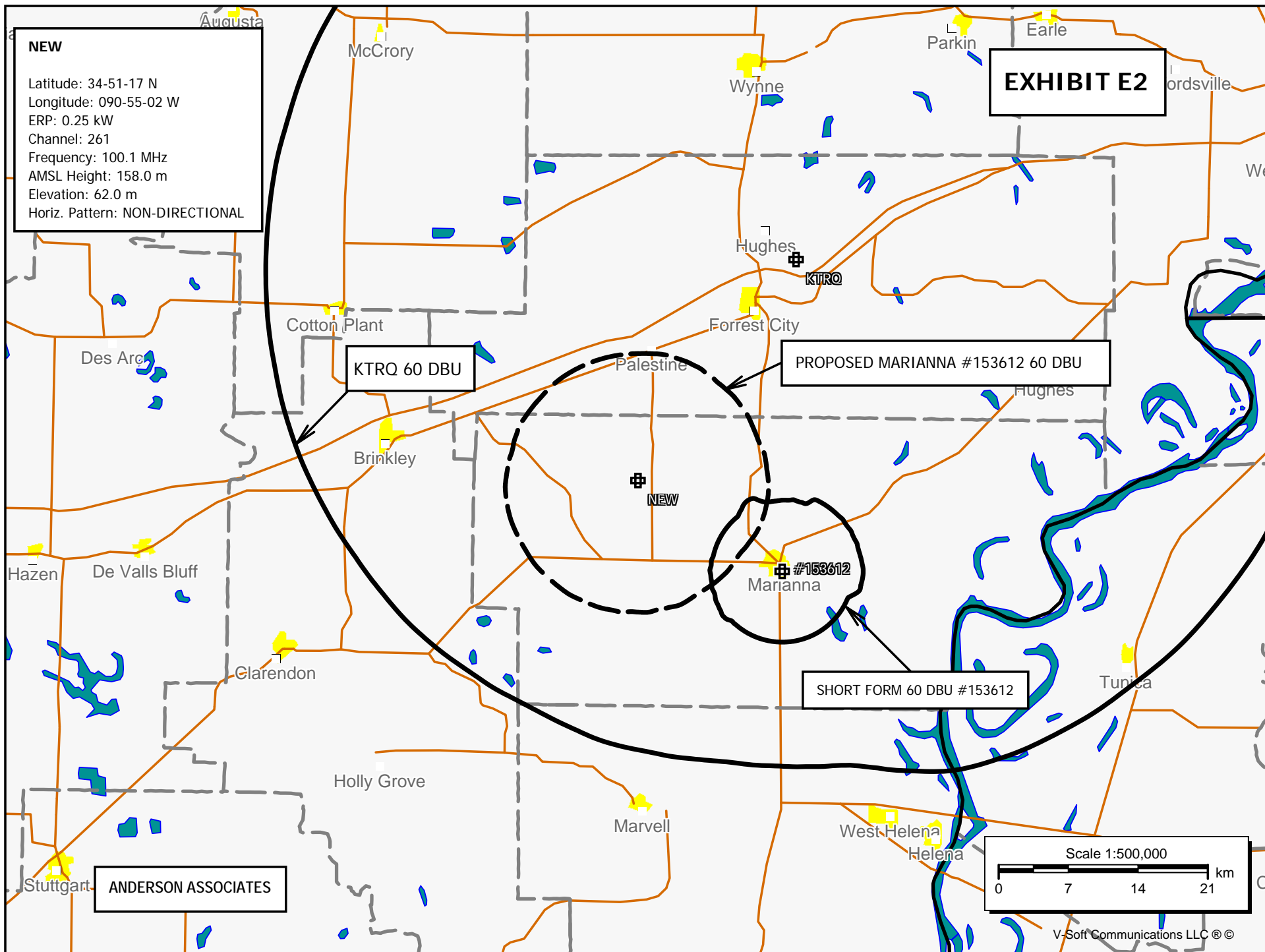
REFERENCE
34 51 17.0 N.
90 55 02.0 W.

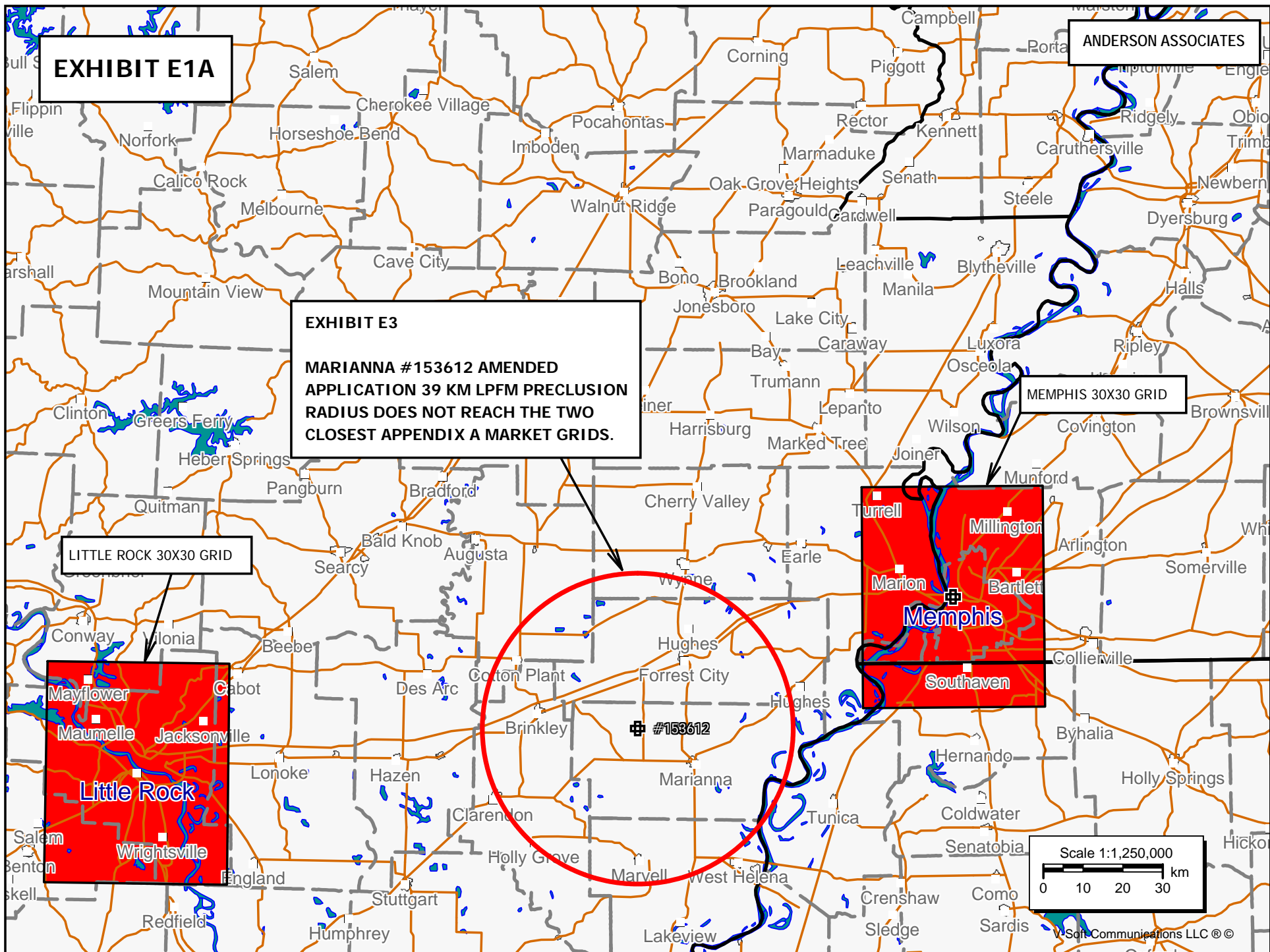
CH# 261D - 100.1 MHz, Pwr= 0.25 kW, HAAT= 100.0 M, COR= 158 M
Average Protected F(50-50)= 12.86 km
Omni-directional

DISPLAY DATES
DATA 03-12-13
SEARCH 03-12-13

CH CITY	CALL	TYPE STATE	ANT STATE	AZI <--	DIST FILE #	LAT LNG	PWR(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
261D Marianna	646830	APP _C_	AR	122.3 302.4	17.07 BNPFT20030317EHZ	34 46 21.0 90 45 33.0	0.250 29	26.5 88	7.1 East Arkansas Broadcasters	-21.3*	-34.3
261C2 Grenada	WQXB	LIC ZCX	MS	140.2 320.8	143.79 BLH20030725ADA	33 51 24.0 89 55 15.0	48.000 153	135.9 237	50.8 Chatterbox, Inc.	-4.8	48.6
261D Southaven	1543947	APP _C_	MS	90.0 270.5	83.20 BNPFT20130304ACL	34 51 05.0 90 00 19.0	0.250	56.3 264	17.9 Edgewater Broadcasting, In	13.9	20.5
259C Memphis	WMC-FM	LIC _E_	TN	69.3 249.9	100.18 BMLH20050308AAR	35 10 09.0 89 53 10.0	300.000 277	12.7 362	81.5 Entercom Memphis License,	74.7	17.9
260C2 Searcy	KWCK-FM	LIC _CN	AR	305.4 124.8	114.52 BLH19900914KC	35 26 50.0 91 56 52.0	50.000 150	82.3 315	55.6 Crain Media Group, Llc	19.3	39.8
262C1 Jacksonville	KDJE	LIC _C_	AR	267.9 87.0	143.90 BMLH20030612ADW	34 47 53.0 92 29 33.0	85.000 321	108.8 448	74.4 Cc Licenses, Llc	21.8	49.7
261D Southaven	641991	APP _C_	MS	78.9 259.4	81.09 BNPFT20030317GCA	34 59 31.7 90 02 36.7	0.205 93	43.7 176	12.7 Edgewater Broadcasting, In	24.5	23.7
264C2 Kensett	KEAZ	LIC ZCX	AR	302.1 121.6	91.49 BLH20130222AAC	35 17 20.0 91 46 17.0	50.000 129	6.1 228	52.8 Crain Media Group, Llc	72.4	37.7
261C2 Dyersburg	WASL	LIC _C_	TN	42.7 223.5	189.58 BLH19910412KB	36 06 00.0 89 29 12.0	26.000 206	131.3 291	52.7 Dr Pepper Pepsi-cola Bottl	45.5	93.3

Terrain database is FCC NGDC 30 Sec , R= 73.215 qualifying spacings or FCC minimum Spacings in KM, M= Margin in KM
In & Out distances between contours are shown at closest points. Reference zone= west Zone, Co to 3rd adjacent.
All separation margins (if shown) include rounding
Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, _= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X)
"*"affixed to 'IN' or 'OUT' values = site inside protected contour.





Registration 1038551

 [Map Registration](#)

Registration Detail

Reg Number	1038551	Status	Constructed
File Number	A0045415	Constructed	10/28/1991
EMI	No	Dismantled	
NEPA	No		

Antenna Structure

Structure Type TOWER - Free standing or Guyed Structure used for Commu

Location (in NAD83 Coordinates)

Lat/Long	34-51-17.0 N 090-55-02.0 W	Address	HWY 261 11.9 MI SW
City, State	FORREST CITY , AR		
Zip	72360	County	LEE
Center of AM Array		Position of Tower in Array	

Heights (meters)

Elevation of Site Above Mean Sea Level	Overall Height Above Ground (AGL)
62.5	104.0
Overall Height Above Mean Sea Level	Overall Height Above Ground w/o Appurtenances
166.5	104.0

Painting and Lightings Specifications

FAA Chapters 3, 4, 5, 9

Paint and Light in Accordance with FAA Circular Number 70/7460-1G

FAA Notification

FAA Study	91-ASW-0130-OE	FAA Issue Date	04/19/1991
-----------	----------------	----------------	------------

Owner & Contact Information

FRN	Owner Entity Type
-----	----------------------

Owner

FORREST CITY BROADCASTING COMPANY INC	P: (870)633-1252
Attention To: WILLIAM J FOGG	F:
P.O. Box 707	E: WWW.ARKRADIO.COM
FORREST CITY , AR 72336-0707	

Contact

P:
F:
E:

Last Action Status

Status	Constructed	Received	01/20/1998
Purpose	New	Entered	01/27/1998
Mode	Mail In (Manual)		

Related Applications

Output from NADCON for station

North American Datum Conversion

NAD 83 to NAD 27

NADCON Program Version 2.11

=====

Transformation #: 1 Region: Conus

	Latitude	Longitude
NAD 27 datum values:	34 51 16.65644	90 55 1.58174
NAD 83 datum values:	34 51 17.00000	90 55 2.00000
NAD 27 - NAD 83 shift values:	-0.34356	-0.41826(secs.)
	-10.587	-10.625 (meters)
Magnitude of total shift:		14.999(meters)



[NGS HOME PAGE](#)