

OPUS-RS solution : 018697_14_267_A1.14O OP1411930375707

opus <opus@ngs.noaa.gov>

Sun 9/28/2014 12:57 PM

To: John Freetly <John.Freetly@neciusa.com>;

FILE: 018697_14_267_A1.14O OP1411930375707

NGS OPUS-RS SOLUTION REPORT

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All computed coordinate accuracies are listed as 1-sigma RMS values.

For additional information: <http://www.ngs.noaa.gov/OPUS/about.jsp#accuracy>USER: john.freetly@neciusa.com
RINEX FILE: 0186267u.14oDATE: September 28, 2014
TIME: 18:57:08 UTCSOFTWARE: rsgps 1.37 RS53.prl 1.99.2 START: 2014/09/24 20:54:00
EPHEMERIS: igr18113.eph [rapid] STOP: 2014/09/24 22:01:45
NAV FILE: brdc2670.14n OBS USED: 2624 / 2624 : 100%
ANT NAME: CHCX90D-OPUS NONE QUALITY IND. 9.40/ 35.18
ARP HEIGHT: 1.8000 NORMALIZED RMS: 0.302

REF FRAME: NAD_83(2011)(EPOCH:2010.0000) IGS08 (EPOCH:2014.73122)

X: -1350265.399(m) 0.004(m) -1350266.259(m) 0.004(m)
Y: -4290470.531(m) 0.011(m) -4290469.277(m) 0.011(m)
Z: 4508457.916(m) 0.013(m) 4508457.874(m) 0.013(m)LAT: 45 15 33.76036 0.009(m) 45 15 33.78098 0.009(m)
E LON: 252 31 49.98394 0.005(m) 252 31 49.92906 0.005(m)
W LON: 107 28 10.01606 0.005(m) 107 28 10.07094 0.005(m)
EL HGT: 1088.001(m) 0.014(m) 1087.311(m) 0.014(m)
ORTHO HGT: 1101.980(m) 0.016(m) [NAVD88 (Computed using GEOID12A)]

UTM COORDINATES STATE PLANE COORDINATES

UTM (Zone 13) SPC (2500 MT)

Northing (Y) [meters] 5014731.296 114253.491
Easting (X) [meters] 306250.250 759337.444
Convergence [degrees] -1.75459467 1.48535666
Point Scale 1.00006158 0.99985421
Combined Factor 0.99989102 0.99968369

US NATIONAL GRID DESIGNATOR: 13TCL0625014731(NAD 83)

BASE STATIONS USED

PID	DESIGNATION	LATITUDE	LONGITUDE	DISTANCE(m)
DM7161	WYSH SHERIDAN CORS ARP	N444801.769	W1070035.715	62557.9
DG9745	MTEI ENGINC CORS ARP	N454447.035	W1083600.736	103646.5
DL7758	P722 YNPBASSRCHMT2005 CORS ARP	N452725.985	W1093415.586	166149.7
DI3425	P052 LRRNCHJRDNMT2006 CORS ARP	N472229.026	W1070107.185	237708.1

NEAREST NGS PUBLISHED CONTROL POINT

QV0343	LG 15	N451341.635	W1073008.056	4315.8
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This position and the above vector components were computed without any knowledge by the National Geodetic Survey regarding the equipment or field operating procedures used.