

OPUS-RS solution : 018697_14_267_A0.14O OP1411927907135

opus <opus@ngs.noaa.gov>

Sun 9/28/2014 12:17 PM

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

FILE: 018697_14_267_A0.14O OP1411927907135

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 DATE: September 28, 2014
 RINEX FILE: 0186267p.14o TIME: 18:16:50 UTC

SOFTWARE: rsgps 1.37 RS52.prl 1.99.2 START: 2014/09/24 15:02:15
 EPHEMERIS: igr18113.eph [rapid] STOP: 2014/09/24 16:19:30
 NAV FILE: brdc2670.14n OBS USED: 4524 / 4830 : 94%
 ANT NAME: CHCX90D-OPUS NONE QUALITY IND. 17.42/ 51.36
 ARP HEIGHT: 1.8000 NORMALIZED RMS: 0.307

REF FRAME: NAD_83(2011)(EPOCH:2010.0000) IGS08 (EPOCH:2014.73056)

X: -1367852.073(m) 0.008(m) -1367852.933(m) 0.008(m)
 Y: -4290349.355(m) 0.021(m) -4290348.102(m) 0.021(m)
 Z: 4503597.235(m) 0.026(m) 4503597.193(m) 0.026(m)

LAT: 45 11 43.44256 0.008(m) 45 11 43.46303 0.008(m)
 E LON: 252 18 59.91569 0.006(m) 252 18 59.86073 0.006(m)
 W LON: 107 41 0.08431 0.006(m) 107 41 0.13927 0.006(m)
 EL HGT: 1296.367(m) 0.032(m) 1295.680(m) 0.032(m)
 ORTHO HGT: 1309.276(m) 0.034(m) [NAVD88 (Computed using GEOID12A)]

UTM COORDINATES STATE PLANE COORDINATES

UTM (Zone 13) SPC (2500 MT)

Northing (Y) [meters] 5008160.418 106733.904
 Easting (X) [meters] 289230.941 742720.145
 Convergence [degrees] -1.90457798 1.32888217
 Point Scale 1.00014625 0.99988833
 Combined Factor 0.99994301 0.99968515

US NATIONAL GRID DESIGNATOR: 13TBL8923008160(NAD 83)

BASE STATIONS USED

PID	DESIGNATION	LATITUDE	LONGITUDE	DISTANCE(m)
DM7161	WYSH SHERIDAN CORS ARP	N444801.769	W1070035.715	68901.8
DG9745	MTEI ENGINC CORS ARP	N454447.035	W1083600.736	94304.5
DJ8992	P033 TENSLEEPTRWY2005 CORS ARP	N435710.415	W1072315.121	140083.1
DL7758	P722 YNPBASSRCHMT2005 CORS ARP	N452725.985	W1093415.586	150845.9
AI5647	MAWY MAMMOTH WYOMING CORS ARP	N445824.319	W1104121.433	237972.9
DM7133	MTLW LEWISTOWN CORS ARP	N470314.929	W1092633.764	247357.1

NEAREST NGS PUBLISHED CONTROL POINT

QV0350	BOZE	N451122.193	W1074112.503	710.6
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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.