

Bonneville Power Administration
Geodetic Control Data Sheet

Station: WM025 (225)
Project: Wallula-Smiths Harbor-McNary
Section: NE 1/4 15 Township: 6 North Range: 31 East Meridian: Willamette
County: Walla Walla State: WA USGS Quad: Wallula, Washington
Surveyor: M R Heidecke Date Surveyed: July, 2001

Instrument:

The horizontal coordinates and orthometric elevation were established by GPS observations using six Trimble 4000 SSI dual frequency receivers with Compact L1/L2 antennae with ground plane.

Adjustment:

The Basis of Coordinates for this survey is the Washington State Coordinate System, South Zone, NAD 83 (1998). The horizontal component of the least squares adjustment was constrained by holding NGS Stations B 340 (A), B 502 (B), PENDLETON (B), STANFIELD EAST BASE RESET (B), and BURDEN (B). The vertical component of the least squares adjustment was constrained by holding NGS Benchmarks B 340 (First Order Class II), B 502 (First Order Class II), BURDEN (Second Order Class II), V 203 (Second Order Class 0), G 640 (First Order Class I). The elevation for point 106, 201, 249, and 255 were determined by differential leveling from G 640, D 502, E 525 and F 431 respectively and held.

Horizontal Datum: NAD83 (1998) Linear Unit: U.S. Survey Feet
Vertical Datum: NAVD88 Linear Unit: U.S. Survey Feet

Latitude: N 46-00-20.99002	Longitude: W 118-55-09.10147
US State Plane Coordinate System: Washington South Zone - 4602	
Northing: 249,261.234	Easting: 2,042,086.077
Orthometric Elevation: 1358.80	Ellipsoid Height: 1288.53
Combined Factor: 0.99990389	Convergence: - 1-08-54
Confidence: 95% Confidence ("1.96 Sigma") Values	
Northing-0.012	Easting-0.009 Elevation-0.100

Monumentation: BPA 3/4-inch Aluminum Cap on 5/8-inch aluminum rod, flush with ground.
Stamping: U.S.D.O.E. Bonneville Pwr. Adm., WM025 - FEC-01 - ATB - GPS

To-Reach Description:

Begin on Washington State Highway #12 at the Washington State Truck Weigh Station at Wallula Junction. Drive west on Washington State Highway #12, 0.1 miles to the intersection of Hatch Grade to the left (south). Drive southeasterly on Hatch Grade Road 1.5 miles to intersection of BPA Lower Monumental- McNary 500kV transmission line. Continue southeasterly on Hatch Grade Road 1.0 mile to intersection of Braden Ranch Road to right (south). Drive south on Braden Ranch Road 0.4 miles to intersection of a semi-permanent wheat field access road to the right (west). Drive southwesterly on the private wheat field access road 0.5 miles to a fork. Drive on right fork northwesterly 0.8 miles to a fork. The left fork is graded and graveled road. Drive the graveled road southwesterly 1.3 miles to a fork in the bottom of Spring Gulch. Drive the left fork parallel to Spring Gulch 100 feet to a fork. Drive the right fork south and southwesterly and uphill through wheat field 0.9 miles to intersection with BPA 500kV transmission line and the Washington-Oregon State line. Pack or ATV northeasterly along BPA transmission line 0.4 miles to the station located about 640 feet easterly From BPA tower 42/3.

Witness post is a yellow carsonite marker inscribed with BPA logo, bearing and distance to station.

Checked By _____
Date _____
Red'd By _____
No. 02-19-9