

Bonneville Power Administration
Geodetic Control Data Sheet

Station: WM035 (235)
Project: Wallula-Smiths Harbor-McNary
Section: SE 1/4 2 Township: 5 North Range: 30 East Meridian: Willamette
County: Umatilla State: OR USGS Quad: Juniper, Oregon
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 Oregon State Coordinate System, North 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: International Feet
Vertical Datum: NAVD88 Linear Unit: U.S. Survey Feet

Latitude: N 45-56-20.77196	Longitude: W 119-01-00.83299
US State Plane Coordinate System:	Oregon North Zone - 3601
Northing: 831,960.864	Easting 8,579,408.676
Orthometric Elevation: 1215.24	Ellipsoid Height: 1144.76
Combined Factor: 0.99993048	Convergence: - 1-03-06
Confidence: 95% Confidence ("1.96 Sigma") Values	
Northing-0.009	Easting-0.006
	Elevation-0.106

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., WM035 - FEC-01 - ATB - GPS

To-Reach Description:

Begin at Umatilla Post Office, Umatilla, OR. 97882. Drive east on Highway 730, 9.2 miles to intersection of State Highway #37 to right (south). Drive southeasterly on State Highway #37, 1.3 miles to intersect BPA 500kV transmission line crossing Highway #37 northeast to southwest. Drive northeasterly on the transmission line access road 4.2 miles to tower 49/2. From this tower the station is 261 feet northeast.
Witness post is a yellow carsonite marker inscribed with BPA logo, bearing and distance to station.

RECEIVED BY
Umatilla County Surveyors
Date _____
Rec'd By _____
No. 02-19-9
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