## Bonneville Power Administration Geodetic Control Data Sheet

Station:	WM024 (224)					
Project:	Wallula-Smiths Harbor-McNary					
Section:	NW 1/4 11	Township: 6 North	Range:	31 East	Meridian:	Willamette
County:	Walla Walla	State: WA	USGS Quad:	Wallula, Wash		_ *************************************
Surveyor:	M R Heidecke		Date Surveyed:	-		

## 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
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Latitude: N 46-00-57.43081	Longitude	e: W 118-54-24.30458				
US State Plane Coordinate System	Washington South Zone - 4602					
Northing: 253,015.314	Easting	2,045,172.904				
Orthometric Elevation: 1374.	.19	Ellipsoid Height: 1303.90				
Combined Factor: 0.999901	40	Convergence: - 1-09-26				
Confidence: 95% Confidence ("1.96 Sigma") Values						
Northing-0.011	Easting-0	.008 Elevation-0.099				

Monumentation: BPA 3¼-inch Aluminum Cap on 5/8-inch aluminum rod, flush with ground. Stamping: U.S.D.O.E. Bonneville Pwr. Adm., WM024 - 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, take right fork northwesterly 0.8 miles to a fork. The left fork is graded and graveled road. Drive the graveled road 0.3 miles to station. Station is 25 feet left of centerline of the gravel road.

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

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