## Bonneville Power Administration Geodetic Control Data Sheet

Station:	WM015 (215)				•	
Project:	Wallula-Smiths Harbor-	McNary				
Section:	SE 1/4 12	Township: 7 North	Range:	31 East	Meridian:	Willamette
County:	Walla Walla	State: WA	USGS Quad:	Wallula, Was		
Surveyor:	M R Heidecke		Date Surveyed:		<b>J</b>	

## 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

	ongitude: W 118-52-40.79590					
US State Plane Coordinate System:	Washington South Zone - 4602					
Northing: 282,681.260 E	asting 2,051,869.212					
Orthometric Elevation: 504.74	Ellipsoid Height: 433.94					
Combined Factor: 0.99992997	Convergence: - 1-10-42					
Confidence: 95% Confidence ("1.96 Sigma") Values						
Northing-0.029	asting-0.007 Elevation-0.098					

Monumentation: BPA 31/4-inch Aluminum Cap on 5/8-inch aluminum rod, flush with ground. Stamping: U.S.D.O.E. Bonneville Pwr. Adm., WM015 - FEC-01 - ATB - GPS

## To-Reach Description:

Begin at Wallula Post Office at Wallula, Wa. 99363. Drive north on Columbia Way (County Road #1870) 0.2 miles to intersection of Columbia Way and Washington State Highway #12. Drive north on Washington State Highway #12, 1.0 miles to intersection of a dirt road to the right (east). Sign at intersection says to Worden Farms & Boise Cascade Fiber Farm Office. The dirt road parallels 2 PP&L 69kV transmission lines. Drive southeasterly 1.6 miles along the PP&L lines to the station. The station bears west 219 feet from the south pole of PP&L structure 5/4. Witness post is a yellow carsonite marker inscribed with BPA logo, bearing and distance to station.

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