## Bonneville Power Administration Geodetic Control Data Sheet

Station:	WM018 (218)						
Project:	Wallula-Smiths Harbor-N	<b>I</b> cNary					
Section:	NW 1/4 24	Township:	7 North	Range:	31 East	Meridian:	Willamette
County:	Walla Walla	State:	WA	USGS Quad:	¯Wallula, Wash	ington	-
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 46-04-49.43782	Longitude: W 118-52-53.70	838				
US State Plane Coordinate System:	Washington Soเ	th Zone - 4602				
Northing: 276,641.340	Easting 2,051,083.040					
Orthometric Elevation: 448.41	Ellipsoid Height:	377.66				
Combined Factor: 0.99993513	Convergence: -	1-10-32				
Confidence: 95% Confidence ("1.96 Sigma") Values						
Northing-0.009	Easting-0.007	Elevation-0.097				

Monumentation:		BPA 31/4-inch Aluminum Cap on 5/8-inch aluminum r	od, flush with ground.
Stamping:	U.S.D.O.E	E. Bonneville Pwr. Adm., WM018 - FEC-01 - ATB - GF	PS

## To-Reach Description:

Begin at Wallula Post Office at Wallula, Wa. 99363. Drive south on Columbia Way (County Road #1870) 0.1 miles to intersection of First Street. Drive east on First Street 0.1 miles to intersection of Ross Way. Drive south on a dirt farm road 0.1 miles where the dirt field road turns east. Continue east on the dirt field road along the North line of Section 23, Township 7 North, Range 31 East, 1.1 miles to the station. The station is 35.1 feet south of the dirt road centerline, and is 27 feet east of a PP&L power pole #243900.

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

