Bonneville Power Administration Geodetic Control Data Sheet

Station:	WM033 (233)					
Project:	Wallula-Smiths Harbor-N	/IcNary				
Section:	SE 1/4 6	Township: 5 North	Range:	31 East	Meridian:	\A/illamatta
County:	Umatilla	State: OR		_Juniper Canyo		_Willamette
Surveyor:	M R Heidecke		Date Surveyed:		ii, Oregon	

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 45-56-35.92422	Longitude: W 118-58-58.	74462		
US State Plane Coordinate System:	Oregon North			
Northing: 833,655.634	Easting 8,588,006.612			
Orthometric Elevation: 1120.00		· · · · · · · · · · · · · · · · · · ·		
Combined Factor: 0.99993601				
Confidence: 95% Confidence ("1.96 Sigma") Values				
Northing-0.009	Easting-0.006	Elevation-0.108		

Monumentat	tion: BPA 31/4-inch Aluminum Cap on 5/8-i	nch aluminum rod flush with ground
Stamping:	U.S.D.O.E. Bonneville Pwr. Adm., WM033 - FE	C-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 6.2 miles to tower 47/2. From this tower pack or ATV to the station which is about 3000 feet southwest on BLM grazing land. Advise using hand held GPS equipment to locate point.

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

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Um	atilia Co	ounty Sur	veyor
Dat			_
Dec	d By_		***************************************
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