Bonneville Power Administration Geodetic Control Data Sheet

Station: MJ008 (108) Project: Wallula-Smiths Harbor-McNary Section: NW 1/4 10 Township: 5 North Range: 28 East Meridian: Willamette County: Umatilla State: OR USGS Quad: Umatilla, 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 45-55-57.75464		Longitude: W 119-18-16.75278		278	
US State Plane Coordinate System:			Oregon North Zone - 3601			
Northing: 828,416.085 Easting 8,506,242.644						
Orthometric	Elevation:	295.14		Ellipsoid Height:	223.93	
Combined F	actor:	0.99997290		Convergence: -	0-50-52	
Confidence: 95% Confidence ("1.96 Sigma") Values						
	Northing-0.007		Easting-0.0	006	Elevation-0.104	

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., MJ008, RYA 01

To-Reach Description:

Begin at Umatilla Post Office, Umatilla, OR. 97882. Drive east on Highway 730, 0.9 miles to junction of Highway 730 and Highway 395. Turn left (north) at stop light. Drive 0.7 mile, on Denore Road, cross railroad tracks to stop sign. Turn left (northwest). Drive 0.7 mile to Spillway Park turn around. Station is north of turn around, 58 feet north of curb and 24 feet south of fence, west of Spillway Park end.

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

Date 2-02 Books by KK 2-19-9