1998 Pacific Northwest Loads and Resources Study Technical Appendix

TABLE OF CONTENTS

Annual Energy Analysis	
SECTION 1: Loads and Resources Tables of the Northwest Region by Major Supply Groups	Table
Northwest Region Loads and Resources	1
Regional Footnotes, Table 1	1
Federal System Loads and Resources	2
Federal System Footnotes, Table 2	2
Public Agencies Loads and Resources	3
Public Agencies Footnotes, Table 3	3
Private Utilities Loads and Resources	4
Private Utilities Footnotes, Table 4	•
SECTION 2: Individual Utility Load and Resource Balances	
Private Utilities	
Avista Corporation (WWP)	U-1
Idaho Power Company	U-2
Montana Power Company	U-3
PacifiCorp	U-4
Portland General Electric Company	U-5
Puget Sound Power and Light Company	U-6
Utah Power Company	U-7
Public Agencies	
Chelan County PUD #1	U-8
Clark Public Utility	U-9
Cowlitz County PUD #1	U-10
Douglas County PUD #1	U-11
Eugene Water and Electric Board	U-12
Grant County PUD #2	U-13
Grays Harbor County PUD #1	U-14
Okanogan County PUD #1	U-15
Pend Oreille County PUD #1	U-16
Seattle City Light	U-17
Snohomish County PUD #1	U-18
Springfield Utility Board	U-19

Annual Energy Analysis

SECTION 2, continued:	Table
Tacoma Public Utilities	U-20
Small and Nongenerating Public Agencies	U-21
Total Generating Public Agencies	U-22
SECTION 3: Miscellaneous	
Colockum Transmission Company	M-1
Montana Power Company, Total System	M-2
SECTION 4: Supporting Tables	
Medium Loads, 1998 BPA White Book Load Forecast	A-1
Exports	A-2
Regulated Hydro Projects	A-3
Independent Hydro Projects	A-4
Imports	A-5
Small Thermal and Miscellaneous Resources	A-6
Combustion Turbines	A-7
Renewable Resources	A-8
Cogeneration	A-9
Large Thermal	A-10
Restoration, by Utility	A-11
Canadian Entitlement Return for CSPE	A-12
CSPE Purchase	A-13
Supplemental and Entitlement Capacity	A-14
Canadian Entitlement Return for Canada	A-15
Contracts Between Utilities	A-16
Capacity Reserves	A-17
Wells and Chelan Allocation	A-18
Rocky Reach and Rock Island Allocation	A-19
Wanapum and Priest Rapids Allocation	A-20
Swift #1 and #2 Allocation	A-21
Non-Utility Generating Resources	A-22
Dedicated Resources	A-23
Other Dedicated Resources	A-24
BPA Power Sales Contracts, Public and Private	A-25

Annual Energy Analysis

SECTION 5: Dedicated and Other Resources	Table
Private Utilities	
Avista Corporation (WWP)	D-1
Idaho Power Company	D-2
Montana Power Company	D-3
PacifiCorp	D-4
Portland General Electric Company	D-5
Puget Sound Power and Light Company	D-6
Public Agencies	
Chelan County PUD #1	D-7
Clark Public Utilities	D-8
Cowlitz County PUD #1	D-9
Douglas County PUD #1	D-10
Eugene Water and Electric Board	D-11
Grant County PUD #2	D-12
Grays Harbor County PUD #1	D-13
Okanogan County PUD	D-14
Pend Oreille County PUD #1	D-15
Seattle City Light	D-16
Snohomish County PUD #1	D-17
Springfield Utility Board	D-18
Tacoma Public Utilities	D-19
Small and Nongenerating Public Agencies	D-20
Colockum Transmission Company	D-21
Monthly Energy Analysis	
SECTION 6: Loads and Resources Tables of the Northwest Region by Major Supply Groups (for OYs 1999-2000, 2003-04, and 2008-09)	
Northwest Region Loads and Resources For OYs 1999-2000, 2003-04, and 2008-09	1
Pacific Northwest Regional Footnotes, Table 1	
Federal System Loads and Resources for OYs 1999-2000, 20003-04 and 2008-09	2
Federal System Footnotes, Table 2	
Public Agencies Loads and Resources for OYs 1999-2000, 2003-04, and 2008-09	3
Public Agencies Footnotes, Table 3	
Private Utilities Loads and Resources for OYs 1999-2000, 2003-04, and 2008-09	4
Private Utilities Footnotes, Table 4	

Monthly Energy Analysis

SECTION 7: Federal and Regional Energy Surplus/Deficit Projections for 50 Historical Water Conditions (for OYs 1999-2000, 2003-04, and 2008-09)

Regional Firm Energy Surpluses/Deficits for the 50 Historical Water Years on Record Federal Firm Energy Surpluses/Deficits for the 50 Historical Water Years on Record

SECTION 8: Individual Utility Load and Resource Balances (for OYs 1999-2000, 2003-04, and 2008-09)	Table
Private Utilities	
Avista Corporation (WWP)	U-1
Idaho Power Company	U-2
Montana Power Company	U-3
PacifiCorp	U-4
Portland General Electric Company	U-5
Puget Sound Power and Light Company	U-6
Utah Power Company	U-7
Public Agencies	
Chelan County PUD #1	U-8
Clark Public Utility	U-9
Cowlitz County PUD #1	U-10
Douglas County PUD #1	U-11
Eugene Water and Electric Board	U-12
Grant County PUD #2	U-13
Grays Harbor County PUD #1	U-14
Okanogan County PUD #1	U-15
Pend Oreille County PUD #1	U-16
Seattle City Light	U-17
Snohomish County PUD #1	U-18
Springfield Utility Board	U-19
Tacoma Public Utilities	U-20
Small and Nongenerating Public Agencies	U-21
Total Generating Public Agencies	U-22
SECTION 9: Miscellaneous (for OYs 1999-2000, 2003-04, and 20	08-09)
Colockum Transmission Company	M-1
Montana Power Company, Total System	M-2

Monthly Energy Analysis

SECTION 10: Supporting Tables (for OYs 1999-2000, 2003-04,	
and 2008-09)	Table
Medium Loads, 1998 BPA White Book Load Forecast	A-1
Exports	A-2
Regulated Hydro Projects	A-3
Independent Hydro Projects	A-4
Imports	A-5
Small Thermal and Miscellaneous Resources	A-6
Combustion Turbines	A-7
Renewable Resources	A-8
Cogeneration	A-9
Large Thermal	A-10
Restoration, by Utility	A-11
Canadian Entitlement Return for CSPE	A-12
CSPE Purchase	A-13
Supplemental and Entitlement Capacity	A-14
Canadian Entitlement Return for Canada	A-15
Contracts Between Utilities	A-16
Capacity Reserves	A-17
Wells and Chelan Allocation	A-18
Rocky Reach and Rock Island Allocation	A-19
Wanapum and Priest Rapids Allocation	A-20
Swift #1 and #2 Allocation	A-21
Non-Utility Generating Resources	A-22
Dedicated Resources	A-23
Other Dedicated Resources	A-24
BPA Power Sales Contracts, Public and Private	A-25
SECTION 11: Dedicated and Other Resources (for OYs 1999-2000, 2003-04, and 2008-09)	
Private Utilities	
Avista Corporation (WWP)	D-1
Idaho Power Company	D-2
Montana Power Company	D-3
PacifiCorp	D-4
Portland General Electric Company	D-5
Puget Sound Power and Light Company	D-6
Public Agencies	
Chelan County PUD #1	D-7
Clark Public Utility	D-8

Monthly Energy Analysis

SECTION 11, continued:	Table
Cowlitz County PUD #1	D-9
Douglas County PUD #1	D-10
Eugene Water and Electric Board	D-11
Grant County PUD #2	D-12
Grays Harbor County PUD #1	D-13
Okanogan County PUD	D-14
Pend Oreille County PUD #1	D-15
Seattle City Light	D-16
Snohomish County PUD #1	D-17
Springfield Utility Board	D-18
Tacoma Public Utilities	D-19
Small and Nongenerating Public Agencies	D-20
Colockum Transmission Company	D-21

Monthly Capacity Analysis

Private Utilities Footnotes, Table 4

SECTION 12: Loads and Resources Tables of the Northwest Region by Major Supply Groups

Northwest Region Loads and Resources For OYs 1999-2000, 2003-04, and 2008-09

Pacific Northwest Regional Footnotes, Table 1

Federal System Loads and Resources for OYs 1999-2000, 2003-04, and 2008-09

Public Agencies Loads and Resources for OYs 1999-2000, 2003-04, and 2008-09

Public Agencies Footnotes, Table 3

Private Utilities Loads and Resources for OYs 1999-2000, 2003-04, and 2008-09

4

SECTION 13: Federal and Regional Capacity Surplus/Deficit Projections for 50 Historical Water Conditions (for OYs 1999-2000, 2003-04, and 2008-09)

Regional Firm Capacity Surpluses/Deficits for the 50 Historical Water Years on Record

Federal Firm Capacity Surpluses/Deficits for the 50 Historical Water Years on Record

Monthly Capacity Analysis

SECTION 14: Individual Utility Load and Resource Balances (for OYs 1999-2000, 2003-04, and 2008-09)	Table
Avista Corporation (WWP)	U-1
Idaho Power Company	U-2
Montana Power Company	U-3
PacifiCorp	U-4
Portland General Electric Company	U-5
Puget Sound Power and Light Company	U-6
Utah Power Company	U-7
Public Agencies	
Chelan County PUD #1	U-8
Clark Public Utility	U-9
Cowlitz County PUD #1	U-10
Douglas County PUD #1	U-11
Eugene Water and Electric Board	U-12
Grant County PUD #2	U-13
Grays Harbor County PUD #1	U-14
Okanogan County PUD #1	U-15
Pend Oreille County PUD #1	U-16
Seattle City Light	U-17
Snohomish County PUD #1	U-18
Springfield Utility Board	U-19
Tacoma Public Utilities	U-20
Small and Nongenerating Public Agencies	U-21
Total Generating Public Agencies	U-22
SECTION 15: Miscellaneous (for OYs 1999-2000, 2003-04 and 2008-0) 9)
Colockum Transmission Company	M-1
Montana Power Company, Total System	M-2
SECTION 16: Supporting Tables (for OYs 1999-2000, 2003-04, and 2008-09)	
Medium Loads, 1998 BPA White Book Load Forecast	A-1
Exports	A-2
Regulated Hydro Projects	A-3
Independent Hydro Projects	A-4
Imports	A-5
Small Thermal and Miscellaneous Resources	A-6
Combustion Turbines	A-7
Renewable Resources	A-8
Cogeneration	A-9

Monthly Capacity Analysis

SECTION 16, continued:	Table
Large Thermal	A-10
Restoration, by Utility	A-11
Canadian Entitlement Return for CSPE	A-12
CSPE Purchase	A-13
Supplemental and Entitlement Capacity	A-14
Canadian Entitlement Return for Canada	A-15
Contracts Between Utilities	A-16
Capacity Reserves	A-17
Wells and Chelan Allocation	A-18
Rocky Reach and Rock Island Allocation	A-19
Wanapum and Priest Rapids Allocation	A-20
Swift #1 and #2 Allocation	A-21
Non-Utility Generating Resources	A-22
Dedicated Resources	A-23
Other Dedicated Resources	A-24
BPA Power Sales Contracts, Public and Private	A-25
SECTION 17: Dedicated and Other Resources (for OYs 1999-2000,	2003-04,
and 2008-09)	
Private Utilities	
Avista Corporation (WWP)	D-1
Idaho Power Company	D-2
Montana Power Company	D-3
PacifiCorp	D-4
Portland General Electric Company	D-5
Puget Sound Power and Light Company	D-6
Public Agencies	
Chelan County PUD #1	D-7
Clark Public Utility	D-8
Cowlitz County PUD #1	D-9
Douglas County PUD #1	D-10
Eugene Water and Electric Board	D-11
Grant County PUD #2	D-12
Grays Harbor County PUD #1	D-13
Okanogan County PUD	D-14
Pend Oreille County PUD #1	D-15
Seattle City Light	D-16
Snohomish County PUD #1	D-17
Springfield Utility Board	D-18

Monthly Capacity Analysis

SECTION 17, continued:	Table
Tacoma Public Utilities	D-19
Small and Nongenerating Public Agencies	D-20
Colockum Transmission Company	D-21
SECTION 18: Capacity Surplus/Deficit Projection Sensitivities	
Northwest Regional Firm Capacity Surplus/Deficit Sensitivities— 10-Year Summary—Assuming Existing Regional Resources and Regional Contracts	
50-Hour Medium Load	R-1
30-Hour - Medium Load	R-1A
70-Hour - Medium Load	R-1B
Federal System Firm Capacity Surplus/Deficit Sensitivities— 10-Year Summary—Assuming Existing Federal Resources and Federal Contracts	
50-Hour Medium Load	F-1
30-Hour - Medium Load	F-1A
70-Hour - Medium Load	F-1B

