

**WHOLESALE POWER RATE DEVELOPMENT STUDY
DOCUMENTATION (VOLUME 1)**

**TABLE OF CONTENTS
for Volumes 1 and 2**

	Page Nos. for Volume 1
INTRODUCTION	1
1. RATE PROCESS MODELING	2
2. RATE ANALYSIS MODEL (RAM)	8
2.1 Energy Allocation Factors	9
2.2 COSA Cost Allocations	41
2.3 Rate Design Study	57
2.4 Subscription Strategy Step	85
2.5 Stepped Rates	101
2.6 Slice Product	106
2.7 Residential Exchange	110
2.7.1 Residential Exchange Average System Cost (ASC) and Loads	111
2.7.2 Residential Exchange RAM Model	162
3. REVENUE FORECAST	167
3.1 Revenue Forecast at Current Rates FY2000 – FY2001	168
3.2 Long-Term Contract Sales and Revenues	172
3.3 Short-Term Power Sales, Prices and Revenues	187
3.4 Short-Term Purchases, Prices and Costs	234
3.5 Section 4(h)(10)(C) Credit Calculation	281
3.6 Fish Cost Contingency Fund Calculation	289
3.7 Energy Efficiency Revenues	293
3.8 APS Revenues at Current Rates	296
3.9 APS Revenues at Proposed Rates	308
3.10 Priority Firm LDD Calculation	320
3.11 Priority Firm Mitigation Adjustment Shaping.....	323
3.12 FY 2002 – FY 2006 Revenues at Current Rates	326
3.13 FY 2002 – FY 2006 Revenues at Proposed Rates	364

[Table of Contents for Volume 2 on Next Page]

**WHOLESALE POWER RATE DEVELOPMENT STUDY
DOCUMENTATION**

**TABLE OF CONTENTS
for Volume 2**

	Page Nos. for Volume 2
4. ADDITIONAL RATE DESIGN TABLES	1
4.1 Load Variance and Stepped Up Multi-Year (SUMY) Block	2
4.2 Demand Charge	8
4.3 Transmission Expense	10
4.3.1 Transmission Rate Assumption Summary.....	11
4.3.2 Annual Transmission Expenses	13
4.3.3 Monthly Transmission	15
4.3.4 Non-Preference Customer Transmission Expenses	21
4.4 Generation Inputs for Ancillary Services and Other Services.....	30A
4.4.1 Operating Reserves	31
4.4.2 Regulating Reserve.....	33
4.4.3 Reactive Supply and Voltage Control	39
4.4.4 Generation Dropping.....	54
4.4.5 Station Service	58
4.5 Segmentation of COE/USBR Transmission Facilities	61
4.5.1 COE Facilities	62
4.5.2 Columbia Basin Facilities	64
4.5.3 Other USBR Facilities.....	70
4.6 Unauthorized Increase Charges and Excess Factoring Charges	72
4.6.1 Demand	74
4.6.2 Energy	89
4.6.3 Within-Day Excess Factoring	111
4.6.4 Within-Month Excess Factoring	125
4.7 Slice	139