TABLE OF CONTENTS

CHAPTER 1 - PROPOSED PLAN

INTRODUCTION .................................................................................. 1-1

THE PROPOSED PLAN ........................................................................ 1-2
  Midpoint to Dry Lake Segment ....................................................... 1-2
  Ely to Delta Segment .................................................................... 1-4
Selecting the Proposed Plan ............................................................... 1-6
Process for Selecting the Environmentally Preferred Alternative ....... 1-6
Differences Between the Agency Preferred Alternative and
  the Environmentally Preferred Alternative ..................................... 1-9
  Midpoint to Dry Lake Segment ....................................................... 1-9
  Ely to Delta Segment .................................................................... 1-10
Consistency With Other Plans ........................................................... 1-11
Comparative Analysis ....................................................................... 1-11
  Midpoint to Dry Lake Segment ....................................................... 1-12
  Ely to Delta Segment .................................................................... 1-12
Public Issues and Management Concerns ........................................ 1-13
  Issue 1 - Need for Project ............................................................. 1-13
  Issue 2 - Maximize Use of Public Lands ........................................ 1-14
  Issue 3 - Minimize Visual Impacts ................................................ 1-14
  Issue 4 - Minimize Impacts to Biological Resources .................... 1-14
  Issue 5 - Minimize Impacts to Cultural Resources ....................... 1-15
  Issue 6 - Health and Safety ........................................................... 1-15
  Issue 7 - Wilderness Areas/Wilderness Study Areas (WSAs) ......... 1-16
  Issue 8 - Minimize Land Use Impacts ........................................... 1-16
  Issue 9 - Use Existing Transmission Line Corridors ..................... 1-16
  Issue 10 - Property Values and Compensation ............................. 1-17
  Issue 11 - Effects on Agency Land Management Plans ................ 1-17
Affected Environment ......................................................................... 1-17
Environmental Consequences ............................................................ 1-20
  Cumulative Effects ....................................................................... 1-22
Issue Comparison by Alternative ....................................................... 1-22
  Issue 1 - Need for Project ............................................................. 1-22
  Issue 2 - Maximize Use of Public Lands ........................................ 1-23
  Issue 3 - Visual Impacts ............................................................... 1-25
  Issue 4 - Minimize Impacts to Biological Resources .................... 1-26
  Issue 5 - Minimize Impacts to Cultural Resources ....................... 1-27
  Issue 6 - Health and Safety ........................................................... 1-27
  Issue 7 - Wilderness Areas/Wilderness Study Areas (WSAs) ......... 1-28
  Issue 8 - Minimize Land Use Impacts ........................................... 1-29
  Issue 9 - Use Existing Transmission Line Corridors ..................... 1-30
  Issue 10 - Property Values and Compensation ............................. 1-31
### CHAPTER 2 - PUBLIC PARTICIPATION

**INTRODUCTION** ......................................................... 2-1

**PUBLIC INFORMATION** .................................................. 2-1

**STEERING COMMITTEE** .................................................. 2-2

**FORMAL PUBLIC MEETINGS** .......................................... 2-3

### CHAPTER 3 - MODIFICATIONS AND ADDITIONAL STUDIES

**PURPOSE AND NEED** ...................................................... 3-1

- Introduction .......................................................... 3-1
- Diversity Between Regions of the WSCC ................................ 3-1
  - Northwest Power Pool ............................................. 3-2
  - Rocky Mountain Power Area ........................................ 3-2
  - Arizona-New Mexico Power Area .................................... 3-3
  - Diversity Benefits from Interconnections ........................ 3-3
- Conservation and Demand-Side Management .......................... 3-4
- Utility Cost Minimization Initiatives ............................... 3-4
  - Environmental and Consumer Benefit Tests ....................... 3-5
  - Generation vs. Transmission ...................................... 3-5
    - Construction Costs .............................................. 3-6
- Transmission System Reliability ..................................... 3-7
- Regional Economic Benefits of the SWIP .............................. 3-8
  - Seasonal Exchanges ................................................ 3-8
  - Resource Coordination ............................................ 3-8
  - Nonfirm Sales and Purchases ..................................... 3-9
  - Firm Sales and Purchases ......................................... 3-9
  - Reserve Sharing .................................................. 3-9
- Existing and Future Generation ....................................... 3-9
  - Bonanza Generating Station (Bonanza) ............................ 3-10
  - Intermountain Generating Station (IGS) .......................... 3-10
  - White Pine Power Project (WPPP) ................................ 3-10
CUMULATIVE EFFECTS

Anticipated Utility Projects in the Ely Area

Scenario 1 - Cutoff Route to North Steptoe/Robinson Summit
Scenario 2 - Cutoff Route to North Steptoe Substation
Scenario 3 - 230kV Corridor Route to Robinson Summit

Environmental Comparison of the Scenarios

The Marketplace-Allen Transmission Project

Potential Fiber Optic Ground Wire

ADDITIONAL STUDIES AND INFORMATION

Analysis of the No-Action Alternative

Biology

Cultural Resources

Visual Resources

Land Uses

Soils/Geology/Paleontology

Recreation Resources

Wilderness/WSAs

Electric and Magnetic Field Effects

Socioeconomics

Grazing

Recent EMF Research Results

Right-of-Way

Right-of-Way Width Requirement and Grounding

Right-of-Way Separation between the SWIP and the UNTP

Military Air Space

Affected Environment

Environment Consequences

Effects to Wilderness Areas, Wilderness Study Areas, and Instant Study Areas

Potential Effects

Idaho

Nevada

Utah

Recreation Effects

Midpoint to Dry Lake Segment

Ely to Delta Segment

Herd Management Areas

Affected Environment

Environmental Consequences

Mitigation

Impacts in the Oasis Area

Subroute Comparison

Conclusions

Antelope Spring Trilobite Beds

Sacramento Pass Mitigation Reroute

Affected Environment

Earth and Water Resources
CHAPTER 4 - ERRATA

COVER SHEET ................................................. 4-1

SUMMARY ................................................. 4-1

CHAPTER 1 - PURPOSE AND NEED FOR ACTION ..................... 4-2

CHAPTER 2 - ALTERNATIVES INCLUDING THE PROPOSED ACTION .... 4-4
CHAPTER 3 - AFFECTED ENVIRONMENT ............................................. 4-8

CHAPTER 4 - ENVIRONMENTAL CONSEQUENCES .......................... 4-11
TABLE 4-4 ................................................................. 4-14
Estimated County Tax Revenues by Alternative Route .................. 4-14

CHAPTER 5 - CONSULTATION AND COORDINATION ..................... 4-15

CHAPTER 6 - PREPARKERS AND CONTRIBUTORS ............................ 4-15

REFERENCES .................................................................. 4-15

APPENDICES FOR THE SWIP DEIS/DPA .................................. 4-16
Appendix C ...................................................................... 4-16
Appendix D ...................................................................... 4-16
Appendix F ...................................................................... 4-16
Appendix G ...................................................................... 4-17
Appendix H ...................................................................... 4-17

MAP VOLUME .................................................................. 4-18

TECHNICAL REPORTS .......................................................... 4-19
Volume II - Natural Environment ............................................... 4-19
Earth Resources ................................................................ 4-19
Biological Resources ............................................................ 4-19
Volume IV - Cultural Environment ........................................... 4-20
Appendix CR-11 .................................................................. 4-23

DATA TABLES FOR NATURAL ENVIRONMENT ......................... 4-24
Biological Resources ............................................................ 4-24

DATA TABLES FOR HUMAN ENVIRONMENT - LAND USE RESOURCES 4-24
Impacts to Military Operating Areas ........................................... 4-24

DATA TABLES FOR HUMAN ENVIRONMENT - VISUAL RESOURCES - VOLUME 2 4-24
Compliance with Agency Visual Management ............................ 4-24

CHAPTER 5 - COMMENTS AND RESPONSES TO THE DEIS/DPA

INDEX OF INDIVIDUALS RESPONDING TO THE DEIS/DPA BY LETTER .... 5-1
INDEX OF ORGANIZATIONS RESPONDING TO THE DEIS/DPA BY LETTER 5-4
INDEX OF AGENCIES RESPONDING TO THE DEIS/DPA BY LETTER ......... 5-6
INDEX OF COMMENT LETTERS RECEIVED AFTER THE SWIP DEIS/DPA COMMENT PERIOD ................................................................. 5-8
INDEX OF COMMENTORS AT THE FORMAL PUBLIC MEETINGS ................................................................. 5-9
COMMENT LETTERS AND RESPONSES FROM INDIVIDUALS
COMMENT LETTERS AND RESPONSES FROM ORGANIZATIONS
COMMENT LETTERS AND RESPONSES FROM AGENCIES
COMMENT LETTERS RECEIVED AFTER THE SWIP DEIS/DPA COMMENT PERIOD
FORMAL PUBLIC MEETING COMMENTS AND RESPONSES

REFERENCES

INDEX

APPENDICIES (Separate Volume)

APPENDIX A - Glossary, Acronyms & Abbreviations
APPENDIX B - List of Agencies, Organizations, and Individuals Receiving the FEIS/PPA
APPENDIX C - Biological Opinion
APPENDIX D - Committed Mitigation for the Proposed Action
APPENDIX E - Data Tables - Sacramento Pass Mitigation Reroute
<table>
<thead>
<tr>
<th>FIGURE</th>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-1</td>
<td>Proposed Plan</td>
<td>1-2</td>
</tr>
<tr>
<td>1-2</td>
<td>Proposed Plan Amendment</td>
<td>1-34</td>
</tr>
<tr>
<td>3-1</td>
<td>WSCC Seasonal Diversity Potential for the Year 2000</td>
<td>3-2</td>
</tr>
<tr>
<td>3-2</td>
<td>Scenario 1 - Cutoff Route to North Steptoe/Robinson Summit</td>
<td>3-12</td>
</tr>
<tr>
<td>3-3</td>
<td>Scenario 2 - Cutoff Route to North Steptoe Substation</td>
<td>3-12</td>
</tr>
<tr>
<td>3-4</td>
<td>Scenario 3 - 230kV Corridor Route to Robinson Summit</td>
<td>3-14</td>
</tr>
<tr>
<td>3-5</td>
<td>Locations of Shorter Towers in Utah Testing and Training Range</td>
<td>3-26</td>
</tr>
<tr>
<td>3-6</td>
<td>Sacramento Pass Mitigation Reroute Earth Resources</td>
<td>3-40</td>
</tr>
<tr>
<td>3-7</td>
<td>Sacramento Pass Mitigation Reroute Biological Resources</td>
<td>3-42</td>
</tr>
<tr>
<td>3-8</td>
<td>Sacramento Pass Mitigation Reroute Landcover</td>
<td>3-42</td>
</tr>
<tr>
<td>3-9</td>
<td>Sacramento Pass Mitigation Reroute Jurisdiction</td>
<td>3-44</td>
</tr>
<tr>
<td>3-10</td>
<td>Sacramento Pass Mitigation Reroute Land Use Resources</td>
<td>3-44</td>
</tr>
<tr>
<td>3-11</td>
<td>Sacramento Pass Mitigation Reroute Visual Resources</td>
<td>3-44</td>
</tr>
<tr>
<td>3-12</td>
<td>Sacramento Pass Mitigation Reroute Cultural Resources</td>
<td>3-48</td>
</tr>
<tr>
<td>3-13</td>
<td>Sacramento Pass Mitigation Reroute Simulation Subroute 1 - Existing Conditions</td>
<td>3-52</td>
</tr>
<tr>
<td>3-14</td>
<td>Sacramento Pass Mitigation Reroute Simulation Subroute 1 - Simulation</td>
<td>3-52</td>
</tr>
</tbody>
</table>
3-15 Sacramento Pass Mitigation Reroute Simulation Subroute 2 - Existing Conditions

3-16 Sacramento Pass Mitigation Reroute Simulation Subroute 2 - Simulation

3-17 Sacramento Pass Mitigation Reroute Simulation Subroute 3 & 4 - Existing Conditions

3-18 Sacramento Pass Mitigation Reroute Simulation Subroute 3 - Simulation

3-19 Sacramento Pass Mitigation Reroute Simulation Subroute 4 - Simulation

3-20 Sacramento Pass Mitigation Reroute Alternative Routes

3-21 Sacramento Pass Mitigation Reroute Subroute Comparison

4-1 Errata for Map Volume: Panel 2 - Alternative Routes

4-2 Errata for Map Volume: Panel 3 - Alternative Routes

4-3 Errata for Map Volume: Panel 4 - Alternative Routes

4-4 Errata for Map Volume: Panel 2 - Land Use Resources

4-5 Errata for Map Volume: Panel 3 - Land Use Resources

4-6 Errata for Map Volume: Panel 4 - Land Use Resources

4-7 Errata for Map Volume: Panel 4 - Land Use Resources

4-8 Errata for Map Volume: Panel 5 - Land Use Resources

4-9 Errata for Map Volume: Panel 5 - Land Use Resources
4-10  Errata for Map Volume:  
Panel 4 - Jurisdiction  

4-11  Errata for Map Volume:  
Panel 2 - Visual Resources  

4-12  Errata for Map Volume:  
Panel 3 - All Resource Maps
LIST OF TABLES

1-1  Route Comparison Table - Midpoint to Dry Lake Routes
1-2  Route Comparison Table - Ely to Delta Routes
1-3  Summary of Selectively Committed Mitigation For the Proposed Action - Midpoint to Dry Lake Segment
1-4  Summary of Selectively Committed Mitigation For the Proposed Action - Ely to Delta Segment
1-5  Selectively Committed Mitigation Measures
1-6  Generic Mitigation Measures Included in the Project Description
3-1  Mileage of Alternative Routes in Military Airspace
3-2  Miles Near Wilderness Areas and WSAs - Midpoint to Dry Lake Alternative Routes
3-3  Miles Near Wilderness Areas and WSAs - Ely to Delta Alternative Routes
3-4  Miles Through Herd Management Areas - Midpoint to Dry Lake Segment
3-5  Miles Through Herd Management Areas - Ely to Delta Segment
3-6  Cultural Resource Data by Link
3-7  Cultural Resources Recorded Along the Sacramento Pass Subroutes
3-8  Cultural Resources Along the Sacramento Pass Subroutes
3-9  Summary of Cultural Resource Impacts

NOTE: All tables are located at the end of their respective chapters.