

**Comanche Peak Nuclear Power Plant, Units 3 & 4
COL Application
Part 3 - Environmental Report**

MASTER TABLE OF CONTENTS

<u>Section</u>	<u>Title</u>	<u>Page</u>
CHAPTER 1		
INTRODUCTION		
1.0	INTRODUCTION	1.0-1
1.1	THE PROPOSED PROJECT	1.1-1
1.2	STATUS OF REVIEWS, APPROVALS, AND CONSULTATIONS	1.2-1
1.3	METHODOLOGY	1.3-1
CHAPTER 2		
ENVIRONMENTAL DESCRIPTION		
2.0	ENVIRONMENTAL DESCRIPTION	2.0-1
2.1	STATION LOCATION.....	2.1-1
2.2	LAND.....	2.2-1
2.3	WATER.....	2.3-1
2.4	ECOLOGY.....	2.4-1
2.5	SOCIOECONOMICS.....	2.5-1
2.6	GEOLOGY.....	2.6-1
2.7	METEOROLOGY AND AIR QUALITY	2.7-1
2.8	RELATED FEDERAL PROJECT ACTIVITIES	2.8-1
2.9	EXISTING PLANT PARAMETERS AND SITE CHARACTERISTICS.....	2.9-1
CHAPTER 3		
PLANT DESCRIPTION		
3.0	PLANT DESCRIPTION	3.0-1
3.1	EXTERNAL APPEARANCE AND PLANT LAYOUT	3.1-1

**Comanche Peak Nuclear Power Plant, Units 3 & 4
COL Application
Part 3 - Environmental Report**

MASTER TABLE OF CONTENTS (Continued)

<u>Section</u>	<u>Title</u>	<u>Page</u>
3.2	REACTOR POWER CONVERSION SYSTEM	3.2-1
3.3	PLANT WATER USE.....	3.3-1
3.4	COOLING SYSTEM	3.4-1
3.5	RADIOACTIVE WASTE MANAGEMENT SYSTEM.....	3.5-1
3.6	NONRADIOACTIVE WASTE SYSTEMS	3.6-1
3.7	POWER TRANSMISSION SYSTEM	3.7-1
3.8	TRANSPORTATION OF RADIOACTIVE MATERIALS.....	3.8-1
3.9	CONSTRUCTION ACTIVITIES	3.9-1
3.10	WORKFORCE CHARACTERIZATION	3.10-1

CHAPTER 4

ENVIRONMENTAL IMPACTS OF CONSTRUCTION

4.0	ENVIRONMENTAL IMPACTS OF CONSTRUCTION.....	4.0-1
4.1	LAND-USE IMPACTS	4.1-1
4.2	WATER-RELATED IMPACTS	4.2-1
4.3	ECOLOGICAL IMPACTS	4.3-1
4.4	SOCIOECONOMIC IMPACTS	4.4-1
4.5	RADIATION EXPOSURE TO CONSTRUCTION WORKERS	4.5-1
4.6	MEASURES AND CONTROLS TO LIMIT ADVERSE IMPACTS DURING CONSTRUCTION.....	4.6-1
4.7	CUMULATIVE IMPACTS RELATED TO CONSTRUCTION ACTIVITIES.....	4.7-1
4.8	NONRADIOLOGICAL HEALTH IMPACTS - CONSTRUCTION	4.8-1
4.9	SEPARATION OF CONSTRUCTION AND PRECONSTRUCTION IMPACTS.....	4.9-1

**Comanche Peak Nuclear Power Plant, Units 3 & 4
COL Application
Part 3 - Environmental Report**

MASTER TABLE OF CONTENTS (Continued)

<u>Section</u>	<u>Title</u>	<u>Page</u>
CHAPTER 5		
ENVIRONMENTAL IMPACTS OF OPERATION		
5.0	ENVIRONMENTAL IMPACTS OF OPERATION	5.0-1
5.1	LAND-USE IMPACTS	5.1-1
5.2	WATER-RELATED IMPACTS	5.2-1
5.3	COOLING SYSTEM IMPACTS	5.3-1
5.4	RADIOLOGICAL IMPACTS OF NORMAL OPERATIONS	5.4-1
5.5	ENVIRONMENTAL IMPACTS OF WASTE	5.5-1
5.6	TRANSMISSION SYSTEM IMPACTS	5.6-1
5.7	URANIUM FUEL CYCLE AND TRANSPORTATION IMPACTS	5.7-1
5.8	SOCIOECONOMIC IMPACTS	5.8-1
5.9	DECOMMISSIONING	5.9-1
5.10	MEASURES AND CONTROLS TO LIMIT ADVERSE IMPACTS DURING OPERATION	5.10-1
5.11	CUMULATIVE IMPACTS RELATED TO STATION OPERATIONS..	5.11-1
5.12	IMPACTS OF TRANSPORTATION OF RADIOACTIVE MATERIALS	5.12-1
5.13	NONRADIOLOGICAL HEALTH IMPACTS DURING OPERATIONS	5.13-1

CHAPTER 6

ENVIRONMENTAL MEASURES AND MONITORING PROGRAMS

6.0	ENVIRONMENTAL MEASURES AND MONITORING PROGRAMS.....	6.0-1
6.1	THERMAL MONITORING	6.1-1
6.2	RADIOLOGICAL MONITORING	6.2-1
6.3	HYDROLOGICAL MONITORING.....	6.3-1
6.4	METEOROLOGICAL MONITORING	6.4-1

**Comanche Peak Nuclear Power Plant, Units 3 & 4
COL Application
Part 3 - Environmental Report**

MASTER TABLE OF CONTENTS (Continued)

<u>Section</u>	<u>Title</u>	<u>Page</u>
6.5	ECOLOGICAL MONITORING.....	6.5-1
6.6	CHEMICAL MONITORING.....	6.6-1
6.7	SUMMARY OF MONITORING PROGRAMS.....	6.7-1

CHAPTER 7

ENVIRONMENTAL IMPACTS OF POSTULATED ACCIDENTS INVOLVING
RADIOACTIVE MATERIALS

7.0	ENVIRONMENTAL IMPACTS OF POSTULATED ACCIDENTS INVOLVING RADIOACTIVE MATERIALS	7.0-1
7.1	DESIGN BASIS ACCIDENTS	7.1-1
7.2	SEVERE ACCIDENTS	7.2-1
7.3	SEVERE ACCIDENT MITIGATION ALTERNATIVES.....	7.3-1
7.4	TRANSPORTATION ACCIDENTS.....	7.4-1
7.5	SEVERE ACCIDENT IMPACTS ON OTHER CPNPP UNITS	7.5-1

CHAPTER 8

NEED FOR POWER

8.0	NEED FOR POWER	8.0-1
8.1	DESCRIPTION OF POWER SYSTEM.....	8.1-1
8.2	POWER DEMAND	8.2-1
8.3	POWER SUPPLY.....	8.3-1
8.4	ASSESSMENT OF NEED FOR POWER.....	8.4-1

**Comanche Peak Nuclear Power Plant, Units 3 & 4
COL Application
Part 3 - Environmental Report**

MASTER TABLE OF CONTENTS (Continued)

<u>Section</u>	<u>Title</u>	<u>Page</u>
	CHAPTER 9	
	ALTERNATIVES TO THE PROPOSED ACTION	
9.0	ALTERNATIVES TO THE PROPOSED ACTION	9.0-1
9.1	NO-ACTION ALTERNATIVE	9.1-1
9.2	ENERGY ALTERNATIVES	9.2-1
9.3	ALTERNATIVE SITES.....	9.3-1
9.4	ALTERNATIVE PLANT AND TRANSMISSION SYSTEMS	9.4-1

CHAPTER 10

ENVIRONMENTAL CONSEQUENCES OF PROPOSED ACTION

10.0	ENVIRONMENTAL CONSEQUENCES OF THE PROPOSED ACTION	10.0-1
10.1	UNAVOIDABLE ADVERSE ENVIRONMENTAL IMPACTS.....	10.1-1
10.2	IRREVERSIBLE AND IRRETRIEVABLE COMMITMENTS OF RESOURCES.....	10.2-1
10.3	RELATIONSHIP BETWEEN SHORT-TERM USES AND LONG-TERM PRODUCTIVITY OF THE HUMAN ENVIRONMENT.....	10.3-1
10.4	BENEFIT-COST BALANCE	10.4-1
10.5	CUMULATIVE IMPACTS	10.5-1