

TABLE OF CONTENTS

	<u>Page</u>
1. EXECUTIVE SUMMARY	1-1
2. INTRODUCTION AND BACKGROUND	2-1
Wyoming IRP Process	2-9
Utah IRP Process	2-10
3. CUSTOMER AND GAS DEMAND FORECAST	3-1
System Total Temperature Adjusted Dth Sales and Throughput Comparison - 2010 IRP and Actual Results for 2010.....	3-1
Temperature Adjusted Dth Sales and Throughput Summary - 2011 IRP	3-1
Residential Usage and Customer Additions	3-2
Small Commercial Usage and Customer Additions	3-3
Large Commercial, Industrial and Electric Generation Gas Demand	3-3
Firm Customer Design-Day Gas Demand	3-4
Periods of Interruption	3-4
Source Data.....	3-4
Utah and Wyoming Economic Outlook.....	3-5
The U.S. Economic Outlook.....	3-5
Alternatives to Natural Gas.....	3-7
Company Use and Lost-and-Unaccounted-For-Gas.....	3-8
Exhibits	3-10
4. SYSTEM CAPABILITIES AND CONSTRAINTS	4-1
Questar Gas System Overview	4-1
Ongoing and Future System Analysis Projects.....	4-2
System Modeling and Reinforcement.....	4-2
Model Validation	4-3
Gate Station Flows vs. Capacity	4-3
System Pressures.....	4-4
Questar Gas 2010 High-Pressure (HP) Projects	4-11
System Capacity Conclusions.....	4-13
DNG Action Plan.....	4-14
Integrity Management Plan Activities and Associated Costs.....	4-23
Transmission Integrity Management	4-24
Distribution Integrity Management.....	4-26
Environmental Issues	4-34
Exhibits	4-37
5. PURCHASED GAS.....	5-1
Local Market Environment.....	5-1
Modeling Issues	5-2
Price Stabilization.....	5-4

6.	COST-OF-SERVICE GAS.....	6-1
	Cost of Service (COS) Modeling Factors	6-1
	Producer Imbalances.....	6-3
	Future Resources.....	6-4
	Exhibit.....	6-6
7.	GATHERING, TRANSPORTATION AND STORAGE	7-1
	Gathering and Processing Issues.....	7-1
	Transportation Issues	7-2
	Storage Issues.....	7-7
	Exhibits	7-13
8.	ENERGY-EFFICIENCY PROGRAMS.....	8-1
	Utah Energy-Efficiency Results 2010	8-1
	Wyoming Energy-Efficiency Results 2010	8-5
	Energy-Efficiency Plan 2011	8-5
	SENDOUT Model Results for 2011	8-10
	Exhibit.....	8-13
9.	FINAL MODELING RESULTS	9-1
	Linear Programming Optimization Model.....	9-1
	Costraints and Linear Programming	9-1
	Monte Carlo Method.....	9-2
	Natural Gas Price	9-3
	Weather and Demand.....	9-3
	Peak Day and Base Load Purchase Contracts.....	9-4
	Base Case Identification	9-5
	Purchased-Gas Resources	9-5
	Cost-of-Service Gas	9-5
	First-Year and Total System Costs	9-6
	Gas Supply Plan.....	9-6
	Gas Supply/Demand Balance	9-6
	Exhibits	9-8
10.	GENERAL IRP GUIDELINES/GOALS FOR GAS SUPPLY AND ENERGY EFFICIENCY RESOURCES	10-1