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BEFORE THE PUBLIC SERVICE COMMISSION OF UTAH

In the Matter of the Application of	**)**	
Rocky Mountain Power for Authority	**)**	**Docket N. 10-035-124**
to Increase its Retail Electric Utility	**)**	
Service Rates in Utah and for	**)**	**Direct Testimony**
Approval of its Proposed Electric	**)**	**Leland Hogan**
Service Schedules and Electric	**)**	**On behalf of**
Service Regulations	**)**	**The Utah Farm Bureau Federation**

June 2, 2011

INTRODUCTION

Q. WHAT IS YOUR NAME, OCCUPATION AND BUSINESS LOCATION?

A. My name is Leland Hogan. I am President of the Utah Farm Bureau Federation, the state's largest farm and ranch organization with more than 30,000 member families statewide. I serve as Chairman of the Farm Bureau Pumper Committee representing members on irrigation issues. I also serve as Vice Chairman of the Governor's Agriculture Advisory Board. I own and operate a farm in Tooele County producing cattle and hay.

Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY IN THIS GENERAL RATE CASE?

A. I represent the interests of Rocky Mountain Power's (RMP or the Company) Utah irrigation customers who are on electric rate schedule 10. My testimony will discuss: 1) the contribution of Utah agriculture to the Utah economy; 2) the unique economics of agriculture and irrigation farming; and 3) the issues that the Public Service Commission should consider when implementing any rate increase for the irrigation customer class.

I. UTAH AGRICULTURE, THE UTAH ECONOMY AND IRRIGATION

Q. HOW IMPORTANT IS AGRICULTURE TO THE UTAH ECONOMY?

A. According to the 2010 Annual Utah Agriculture Statistics Report, agriculture contributes approximately $1.2 billion[1] in farm commodity sales.

A 2010 study released by Utah State University evaluated the economic impact of agriculture and food in Utah. The analysis reported agriculture and food contributes

[1] 2010 Utah Agriculture Statistics and Utah Department of Agriculture Annual Report

$15.2 billion[2] in economic activity annually and employs more than 66,000 Utahns through forward and backward linkages – transportation, energy, chemicals, processing, manufacturing and so forth.

According to the U.S. Department of Agriculture Economic Research Service, eighty-nine (89) percent of the state's population resides in urban communities while only eleven (11) percent reside in rural communities[3]. Utah is the 9th most urban state in the United States. Food and agriculture are the driving force for our rural economy, vitally important to rural communities. These communities depend on agriculture for tax revenues to fund roads, schools and other rural infrastructure and ultimately is a major contributor to their overall quality of life.

Q. UTAH IS AN ARID STATE. WHAT ALLOWS UTAH'S FARMERS AND RANCHERS TO ACHIEVE THE ECONOMIC IMPACT THAT YOU JUST DESCRIBED?

A. Utah farmers and ranchers rely on irrigation systems which are powered by electric pumps to make their pastures, farm fields and orchards productive. During the growing season, these irrigation systems often run on a continual basis when there is no precipitation. Without irrigation, Utah farms and ranches could not produce sufficient crop yields to remain, profitable and in business.

Q. YOU INDICATED THAT IRRIGATION IS POWERED BY ELECTRICITY. HOW DOES THE PRICE OF ELECTRICITY IMPACT THE ECONOMICS OF IRRIGATION FARMING?

A. Food production, as an industry, is highly energy intensive. Increased costs of electricity,

[2] The Economic Impact of Agriculture of the State of Utah, Utah State University, January 2010 or http:/ag.utah.gov/news/documents/USUageconstudy2010-02.pdf

[3] USDA Economic Research Service, State Fact Sheets – Utah or http://www.ers.usda.gov/statefacts/ut.htm

fuel and fertilizer in recent years means approximately half of farmer's and rancher's costs of production are energy related. Utah's largest cash crop is alfalfa hay, with $182 million in sales in 2009. Utah's dry, high desert climate which makes irrigation a necessity, also provides an environment that produces a very high quality dairy feed. Utah hay growers rely on dairy farms as their most important market. Dairy demand establishes alfalfa hay prices in Utah and in the region. Utah's recognized high quality provides some sales in the price competitive Asian export market. Utah alfalfa hay growers compete for markets with hay growers in the Rocky Mountain Region, the Northwest and Canada (the latter who have a government subsidized transportation system to their west coast providing a cost advantage).

II. ECONOMICS OF AGRICULTURE AND IRRIGATION FARMING

Q. IN YOUR INTRODUCTION, YOU DESCRIBE THE ECONOMICS OF AGRICULTURE AS BEING UNIQUE. PLEASE EXPLAIN.

A. Unlike most sectors of the economy, agriculture has historically, and continues to be unable to effectively pass along increased costs of production to the processors and consumers. Commodity prices are set through national and international markets. Higher production costs, including electricity for irrigation creates a cost/price squeeze for irrigators.

Agriculture is highly competitive. Increased costs of production locally means Utah irrigators are less competitive in regional, national and global markets. To sell Utah grown farm commodities below cost of production ultimately affects long term economic viability of our farms and ranches. This cost/price squeeze will over time lead to the liquidation of a limited asset – Utah's prime and unique farmland and

valuable open space.

Utah food producers are "price takers" not "price makers." To that point, farmers and ranchers deliver a commodity locally to a limited number of processors, brokers and middlemen who pay a price established regionally or nationally, with little local influence.

To deal with these market realities, Utah has one of the highest percentages of its farmers and ranchers taking non-farm jobs to make economic ends meet. According to USDA National Agriculture Statistics Service (NASS) Utah is tied for second among the 50 states with 62 percent[4] of the Utah's farming and ranching operations working off their farms, earning non-farm income to meet their financial obligations.

Q. YOU EXPRESSED THE IMPORTANCE OF THE PRICE/COST SQUEEZE ON UTAH FARMERS. CAN YOU GIVE AN EXAMPLE OF SUCH A COST/PRICE SQUEEZE?

A. Yes. In 2008, Utah farmers and ranchers found themselves in an especially painful cost/squeeze when diesel fuel prices in some rural areas exceeded $5.00 per gallon. Although demand for locally grown agriculture products was strong, the reality that diesel fuel costs had doubled in a short period created a cost/price squeeze with food producers unable to recoup their full cost of production in the market. This squeeze created a financial burden that in some cases led to the farm sales. Other food producers renegotiated mortgage loans or annual operating loans, liquidating equity in the business.

Q. ARE UTAH'S IRRIGATION FARMERS IN A BETTER POSITION NOW?

A. No. Fuel prices declined for a time after reaching all time highs in 2008, possibly due to

[4] 2007 Census of Agriculture, Vol. 1, Chapter 2, Table 46
or
http:www.agcensus.usda.gov/Publications/2007/Full_Report/Volume_1_Chapter_2_US_State_Level/st99_2_046_046.pdf

the global economic recession and reduced demand for oil. The political unrest in the Middle East has led to global oil prices again exceeding $100 per barrel. At the pump, gas and diesel prices are up again, with some analysts predicting gas and diesel fuel prices will exceed the record 2008 price levels.

Market uncertainty for alfalfa hay is creating price volatility. Alfalfa hay prices in Utah are heavily influenced by local dairy demand, weather and the California dairy market. Prices for milk produced by dairy farmers in Utah are set under the Federal Milk Marketing Order and milk produced by California dairy farmers is priced under the California's Milk Marketing Order.

Q. WHAT ARE MILK MARKETING ORDERS?

A. In the 1930s, the U.S. Federal Government established a system of Milk Marketing Orders (MMO) to provide for the orderly marketing of milk. These Milk Marketing Orders, on a regional basis, establish pricing for what was considered a very perishable food commodity. Some consider the order system outdated because it is less than effective in recognizing market forces related to price and demand. Prices continue to be set by the Federal Government and are set based on a relationship - fluid milk usage in cheese manufacturing. It is a pricing system that is complicated and understood by few.

The milk prices to Utah dairy farmers, based on Federal MMO pricing, show extreme volatility between 2002 and 2007 with a low of $11.80 and a high of $18.90[5]. More recent price trends report 2009 milk prices established through the Federal MMO as low as $10.50 per hundredweight increasing to a summer 2010 average price of of $15.00 per hundredweight. Prices in 2011 have increased, averaging between

[5] USDA National Agricultural Statistics Service, Utah Agriculture or www.nass.usda.gov

$16.00 and $17.00[6] per hundredweight.

According to the Utah Dairymen's Association, for the first quarter of 2011 the statewide average milk production cost is $17.00 – 17.50 per hundredweight.

Q. HOW IS FEDERAL ENERGY POLICY AFFECTING UTAH IRRIGATORS?

A. Alfalfa hay and feed corn are the major feed cost components used by dairy farmers. Corn prices are being influenced by federal energy policy that is providing a market subsidy to corn that is made into ethanol for auto fuels. Approximately 35 percent of the corn produced domestically is now being converted into ethanol for use in automobiles as bio-fuels. Corn prices have escalated dramatically in recent years. From 2001 to 2006, prices averaged just over $2.00 per bushel[7]. Corn prices have increased by nearly 300 percent between 2007 and 2011 hitting nearly $6.50[8] per bushel early this year, adding to the cost/price squeeze pressure.

Q. HOW HAS CORN PRICE INCREASES AND MILK PRICES BELOW COST OF PRODUCTION ADVERSELY AFFECTED IRRIGATORS?

A. Lack of economic stability for Utah dairy farmers has led to uncertainty for alfalfa hay growers and wild fluctuations in market prices the last two years. According to UDSA NASS, Utah baled hay prices averaged about $150 per ton during the winter months of 2009, falling to around $100 per ton as summer production came on. The 2010 prices showed little increase ranging from first quarter average price of $95 per ton to December 2010 average baled alfalfa hay selling for $113 per ton.

Escalating of energy inputs costs, federal energy policy increasing the cost of

[6] Ibid
[7] Agricultural Prices (April 2011) USDA, National Agricultural Statistics Service.
[8] Ibid

corn, a major feed component, and prices set through government Milk Marketing Orders pricing milk at prices that do not cover the cost of production has contributed to the number of dairy farms in Utah dropping from more than 800 in 2000 to around 400 in 2011.

Local demand from a decreasing number of Utah dairy farms has created uncertainty, volatility and downward price pressure in the Utah alfalfa hay market. Utah irrigators are faced with more uncertainty in 2011 than in recent years.

Q. CONSIDERING THE WEAK ECONOMIC CONDITIONS, HOW WILL AN INCREASE IN ELECTRICITY PRICES IMPACT UTAH FARMERS?

A. Because the climate in Utah during the production season is usually dry, Utah farmers and ranchers must rely on irrigation to make their farmland productive. Utah is second only to Nevada as the nation's most arid state. Electricity is the primary energy source for the state's irrigation pumps. Increased electricity costs would increase the costs of production for producing alfalfa hay, Utah's number one cash crop, but would also increase the cost of production for fruit farmers, small grain farmers, and vegetable farms who pump irrigation water. As previously noted, farmers cannot easily pass along increased costs of production to their customers.

An increase in electric rates to pump irrigation water for farming would further exacerbate the cost/price squeeze food producers already face. As has been previously pointed out a high percentage of Utah farmers and ranchers are augmenting their incomes from non-farm jobs to help meet financial obligations. Stability in the cost of energy inputs for Utah's farms and ranches would help maintain the important economic contribution agriculture makes to our rural communities – providing jobs, paying taxes and funding important local infrastructure needs and contributing to Utah's overall

economy.

III. RATE INCREASE CONSIDERATIONS FOR THE IRRIGATION CLASS

Q. WHAT RATE INCREASE HAS THE COMPANY PROPOSED FOR THE SCHEDULE 10 IRRIGATION CLASS IN THIS FILING?

A. The company has proposed an 18.6 % increase for the irrigation class, the largest increase for any retail customer class. The average rate increase for all retail customers is 14.1%. The proposed increase for farmers and ranchers using electric pumps for irrigating their fields is 33% higher than the average requested increase.

Q. HOW SHOULD THE UTAH PUBLIC SERVICE COMMISSION RESPOND TO THE COMPANY'S PROPOSAL FOR IRRIGATION RATES?

A. This question is extremely difficult to answer because of a number of inter-related and philosophical issues. Utah has had a proud history of embracing self-sufficiency. Self sufficiency in meeting our most basic need, our food, goes back to early settlement by our pioneer ancestors. Recognizing the volatility in the energy sector, it seems that as a state and nation, we would want to protect our ability to produce domestically our food and fiber. Placing additional economic burdens in an already stressed economic sector, will put our food producing capabilities at additional risk. We are currently seeing food price volatility at the grocery store driven by increased fuel costs, adverse weather conditions and politically motivated policies.

In the food price equation, it's important to recognize where the consumer dollar goes. According the USDA Economic Research Service (ERS), 19 cents out of every spent at the grocery store goes to the food producer – the farmer or rancher. That

means about 80% of every consumer dollar spent on food is attributed to non-farm costs[9].

When farmers and ranchers are caught in the cost/price squeeze attributed to a combination of low commodity prices coupled with escalating input costs, more are forced to take non-farm jobs and/or borrow against the equity in their property. Selling at less than the cost of production means undermining Utah's farm and ranch assets which is unfair to our food producers and undermines our local food security. In addition, during tight lending periods like we are witnessing today, getting operating loans based on equity is difficult at best.

With irrigators a small part of the overall revenue picture for the Company, making up less than one percent of the total revenues, the Commission should keep any rate increase to a minimum to lessen the adverse impacts farmers and ranchers who rely on affordable power rates to run their operations. By keeping the power rate as low as possible, the Commission will benefit Utah's rural communities which are heavily dependent on agriculture.

Q. HOW DO YOU SUPPORT SUCH A POSITION?

A. As presented earlier in my testimony, any increase in the schedule 10 rates adversely impacts the economic viability of irrigation farmers. Therefore, the Commission should take into consideration the following factors in making its spread decision in this proceeding:

(1) The company's actual cost to serve irrigation customers are currently unknown because the load sample for irrigators is very inaccurate,

[9] USDA Economic Research Service (2006) or http://www.ers.usda.gov/Publications/eib48/Spreads/17/index.htm

(2) Irrigators are a very small part of the Company's overall revenue,

(3) The irrigation class consumption has remained flat and therefore has not been a significant driver behind the Company's need to build more power plants or transmission lines, and

(4) Irrigators have been willing to work with the Company to help manage their peak loads by actively participating in load control programs.

I discuss in greater detail each of these factors below.

Q. HOW WOULD YOU DESCRIBE THE ENERGY NEEDS OF THE IRRIGATORS TAKING SERVICE UNDER SCHEDULE 10?

A. Inconsistent and unpredictable. There are many factors affecting their demand for energy. For example, climate conditions affect demands for energy. Variability in temperature, wind, and moisture complicate the consistency of energy demand. Power demand coincides with seasonal power demands. Food and agriculture production related to irrigation peaks during the Company's high demand cycle. Another factor affecting electricity and pumping is the crop being produced. Determining crop often is related to the irrigator's crop rotation. That may be determined by nutrient management or soil related disease issues. Rotating from alfalfa hay to small grains will lower the water demands and reduce the irrigation season. Irrigation seasons for crops like alfalfa and corn are longer than irrigation seasons for wheat or barley. Lastly, when farmers fallow or idle their land for soil health, they will have little or no demand for electricity. Each of these factors, independent or combined, vary the irrigator's power demand.

Q. GIVEN THE UNPREDICTABILITY OF PUMPER ENERGY DEMAND, HAS IT BEEN

DIFFICULT TO MEASURE ENERGY DEMAND FOR PUMPERS?

A. Yes.

Q. WHAT EVIDENCE DO YOU HAVE TO DRAW THIS CONCLUSION?

A. On November 30, 2010, the Division of Public Utilities published a report entitled, "Report of the Division of Public Utilities on Workgroups I-II: Load Research and Peak Hour Forecasting." ("Report") Within the Report (page 12), it was agreed by the parties collaborating on the Report that load research for irrigation class was "problematic."[10]

Q. HOW DOES UNRELIABLE LOAD RESEARCH AFFECT ENERGY STUDIES?

A. Any study based on unreliable data will produce unreliable study results. If decisions about energy demand are based on faulty results, then the rates would inaccurately reflect energy demand. Within the same above stated Report, the Office of Consumer Services (OCS) stated that "problems with the irrigation load data make the Cost of Service (COS) results for this customer class unreliable and the Company has no credible support for its claim that the irrigation class is contributing substantially less than the Company's average rate of return."

Q. BASED ON THE REPORT, WHY ARE THE COSTS OF SERVICE FOR THE IRRIGATOR CLASS OVERSTATED?

A. The Company's load research sample is selected from actively irrigating customers, not all irrigation customers. Other classes are sampled over an entire population. Ten percent of the irrigators are cited as active, but have zero electricity usage during an

[10] Report of the Division of Public Utilities on Workgroups I-II: Load Research and Peak Hour Forecasting, Division of Public Utilities et al., November 30, 2010 (Docket 09-035-23), p 12

irrigation season. Omitting those farmers who use no electricity from the load research biases the study towards higher contribution to peak. Recognizing that during any production season, there is a percentage of the irrigators who are idling their land for soil health issues.

Q. GIVEN THE LOAD SAMPLING PROBLEM, HOW SHOULD RATES FOR THE IRRIGATION CLASS BE SET?

A. Since the rate setting algorithm for irrigators is beset with many inaccuracies, setting the rate for irrigators should provide stability in this important food production sector and not disrupt the contributions they make to rural communities.

New rates for irrigators could be set based on the average retail increase. This average rate increase should be considered the upper limit for any rate increase to be applied to Schedule 10. Based on all the uncontrollable issues food producers face as described in earlier testimony, the rates could be set using a lower than average increase.

Q. HOW DO THE RATES FOR IRRIGATORS IMPACT THE COMPANY'S OVERALL REVENUE?

A. In 2009, the revenue from irrigators was .8% of the Company's Utah revenues. Because irrigators are less than 1% of the Utah revenue, changes to the rates of the irrigation class have almost no effect on the Company's Utah revenue.

Q. WHY SHOULD THE SIZE OF THE IRRIGATOR CLASS FACTOR INTO THE COMMISSION'S DECISION ON HOW TO SET IRRIGATOR RATES?

A. Because the irrigators are such a small class, their rates have little effect on the rates and costs paid by other classes. Conversely, increases to the Schedule 10 rates have the potential to do great harm to the farmers and ranchers of Utah. The revenue impact on the other customers is simply not large enough to justify the potential harm done to irrigators and the customers and rural communities they support by increasing irrigation rates more than other classes.

Q. HAS INCREASED DEMAND FROM IRRIGATION CUSTOMERS CAUSED THE COMPANY TO BUILD MORE POWER PLANTS AND TRANSMISSION LINES?

A. No. First of all, as I described earlier, irrigators are a very small customer class and cannot be a driver for the Company's recent capital investments. These investments are driven by the growth in urban populations, businesses and large industrial customers. Second, annual power usage by irrigators has remained relatively flat or dropped over the last several years. According to the Company irrigators used 198 million kWh in 2002 versus 184 million kWh between July 2009 and June 2010. The Company is forecasting irrigators using 187 million kWh between July 2011 and June 2012.[11] The numbers point to the fact, the irrigators are not the cause of resource and infrastructure growth in the utility's system.

Q. HOW DO IRRIGATORS HELP THE COMPANY MANAGE SYSTEM PEAK DEMAND IN THE SUMMER?

A. Pumpers are actively participating in load control programs that help the Company manage and reduce load during its peak periods. The Company offers incentives like reduced rates to irrigators who are willing to sign on for interruptible service. This helps

[11] Eelkema Direct, Table 3, pg. 12.

reduce the farmers' input costs and reduce load during peak periods. Certainly, this provides a mutually beneficial outcome for food consumers, irrigators and the utility. In short, this interruptible program provides the Company with an important tool that helps keep down overall energy costs.

SUMMARY

Q. PLEASE SUMMERIZE THE FARM BUREAU'S TESTIMONY ON IRRIGATION RATES IN THIS GENERAL RATE CASE PROCEEDING.

The Farm Bureau asks the Commission to carefully consider any rate increases for the irrigation class, particularly recognizing the unreliability of the Company's load sampling for Schedule 10 as well as several special circumstances that affect this class. In summary, the Farm Bureau concludes the following:

- Because of load sampling problems, the Company cannot accurately determine the cost of service for Schedule 10. Therefore, the Commission should not approve a rate increase for Schedule 10 that is any higher than the average retail rate increase.

In addition, Farm Bureau offers the following reasons why the Commission should consider a lower increase:

- Irrigators make up less than 1% of the Company's Utah revenue. Their small size also minimizes the impact of irrigator rates on other customer classes. This cannot justify the disproportionate harm that rate increases cause Utah's farmers and ranchers.
- Schedule 10 consumption has been flat and therefore has not been a primary driver for

the new plant and other infrastructure investments made by the Company.

- Irrigators are an important contributor to Utah's rural economic and cultural fabric. Higher power rates adversely impacts financial stability of farmers and ranchers and lessens the economic contribution food producers make to rural communities.
- Lastly, Schedule 10 customers have assisted the Company in its management of usage during the summer peak period by their participation in irrigation load control programs.

Q. DOES THIS CONCLUDE YOUR TESTIMONY?

A. Yes.