

ADDENDUM

Senator Robert F. Bennett Appropriation Disclosure Requirements Fiscal Year 2010

Under the new disclosure requirements announced at the beginning of the 111th Congress by the Senate and House Appropriations Committees, all Members of Congress are required to post on their websites each appropriations request they submit to the respective subcommittees. The information must include an explanation of the project, a justification for the request, and the requesting entity.

Senator Bennett is requiring any entity seeking federal funding to sign, date, and return this form to his office by April 6, 2009. By signing below, the requesting entity acknowledges that each Fiscal Year 2010 Appropriations Request form submitted to Senator Bennett's office, along with this addendum, will be posted on the senator's website in compliance with the new practice of the committee, and will therefore be available to the public. By signing this addendum, the requesting entity also acknowledges that the corresponding appropriations request is a priority for the city, county, council, or other organization that it represents. Each request will continue to be thoroughly reviewed by Senator Bennett's office and by the staff of the Appropriations Committee.

Going forward, Senator Bennett will continue to work to represent Utah's interests by ensuring Utah's priorities are adequately represented with congressionally directed spending.

Note: A signed addendum must be returned for **each appropriations request submitted** for Fiscal Year 2010.

Project Name: Alternative Energy R&D at Utah State University

Head of the organization making request: Name: Stan L. Albrecht

Title: President, Utah State University

Signature: 

Date: April 2, 2009

**Senator Robert F. Bennett
FY2010 Appropriations Request Form**

Date:	March 6, 2009
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Requesting Organization:	Utah State University	Address:	1455 Old Main Hill, Logan, UT 84322-1455		
Organization Point of Contact:	Michael J. Kennedy	Phone:			
Address:	USU, 1455 Old Main Hill, Logan, UT 84322-1455	Email:			
DC Representation:	(If any) David B. Lee, Lee and Smith, PC	Phone:			
Address:	2526 L Street, NW, Washington, DC 20037	Email:			
Name of Project:	Alternative Energy R&D at Utah State University	Total # of Projects Requested	24	Priority #:	
				Subcmte.	1
				USU	2
				USU/SDL Combined	2
Name of Grantee:	Utah State University	Address:	1455 Old Main Hill, Logan, UT 84322-1455		

Suggested Appropriations Bill:	FY10 Energy and Water Appropriations Bill
Suggested Account in Bill:	Department of Energy, Energy Efficiency and Renewable Energy
Are you submitting this request to other offices?	No. If yes, please list:
Total Amount of Federal Funding Requested for Fiscal Year 2010:	\$7,500,000
Is any of this Funding Included in the President's Budget Request?	No.
Anticipated Future Funding Requests (amounts and years):	\$22.5M over three years.
Local and State Funding Sources and Amounts:	
Other Federal Funding Sources and Amounts:	
If this is a Transportation Request, is it listed on the TIP or STIP?	N/A <input type="checkbox"/> Yes <input type="checkbox"/> No
If this is an Energy & Water Request, please include a statutory authorization for the request:	Energy Policy Act of 2005, Public Law 109-58, 119 STAT. 594, Title IX. Research and Development

Project Funding History

Fiscal Year	Amount Appropriated	Appropriations Bill	Account
2009			
2008			
2007			
2006			
Federal Agency Contact (name, office, e-mail and phone number):			
State Agency Contact (name, office, e-mail and phone number):			

One Sentence Statement of Purpose for the Project.

This request begins the process of coalescing separate energy research programs at USU into a nationally-recognized, interdisciplinary university-wide energy laboratory focused on alternative energy R&D.

Detailed Description the Project.

If you wish, you may submit a separate white paper with additional details.

After a three year legislative cycle, our goal is to have dedicated and coordinated energy research clusters on both the USU Main and Innovation Campus. We anticipate growing the program into an interdisciplinary staff of ~50 broadly funded in the range of \$7-10

million per year and embedded in several USU colleges and departments with linkages to a planned USU Research Foundation business unit. We will leverage these resources to build strategic, long-term partnerships w/ targeted DOE national labs (ORNL, PNNL, NREL, ANL, NETL, and INL) and several research universities (existing relationships are already forming with TAMU, UCB, ASU, CSM, MSU, and others). We also anticipate the formation of strategic ventures leading to economic stimulus on the Innovation Campus and throughout Utah.

State Exactly How the FY10 Funds would be Allocated.

We will fund faculty, acquire best-in-class R&D infrastructure, demonstrate technical feasibility in targeted areas, and strategically hire a few new research staff to position USU for growth in the following areas:

Core Programs

- Algae Biofuels / Biosequestration \$3.0 M
 - Faculty Summer Salaries - \$400K
 - Permanent Research Staff Salaries - \$1.4M
 - Capital Equipment and Lab Renovation - \$600K
 - Collaborations with in-state universities and colleges - \$400K
 - Subcontracts, travel, and other expenses - \$200K

- Wireless Electric Transportation \$2.0 M
 - Faculty Summer Salaries - \$250K
 - Permanent Research Staff Salaries - \$1.0M
 - Capital Equipment and Lab Renovation - \$550K
 - Subcontracts, travel, and other expenses - \$200K

- Adaptive Solar & Building Energy Systems \$2.0 M
 - Faculty Summer Salaries - \$180K
 - Permanent Research Staff Salaries - \$1.0M
 - Capital Equipment and Lab Renovation - \$640K
 - Subcontracts, travel, and other expenses - \$180K

- High-Fidelity LIDAR Wind Energy Siting \$0.5 M

Justification for the Use of Taxpayer Funds for the Project.

Energy is the most intractable challenge facing America that can be solved through science and technology. Growth in federal energy R&D funding is projected to continue during the Obama Administration. It is apparent from initial transition team appointments - and comments made by top Obama advisors - that the Administration will focus a majority of federal energy R&D on energy-efficiency, renewable energy, carbon sequestration, and carbon-free energy sources rather than fossil fuels. Their direction dovetails with USU Energy Lab initiatives outlined herein and will further our efforts to establish a unique niche both within Utah and nationally.

The USU Energy Lab has spent the past year positioning the University in multiple energy R&D areas through USTAR investments, development of internal and external strategic partnerships, development of a web-site, and involvement in technology roadmaps. To accelerate momentum and best leverage political capital anticipated in the 111th Congress, a strategic, coordinated, and university-wide investment is needed targeting transformational alternative energy R&D in multiple areas. It has the potential to pay significant dividends in out-years if managed and coordinated properly.

Leveraged Funds: Approximately \$10 million over the past 3 years including two USTAR initiatives; the Utah Transportation Center; and smaller programs in DOE Nuclear, Fossil, and Biomass, DARPA, and USDA.

USU Contact:

Jeff Muhs, Exe. Dir.
USU Energy Lab
Utah State University

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Fiscal Year 2010

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Going forward, Senator Bennett will continue to work to represent Utah's interests by ensuring Utah's priorities are adequately represented with congressionally directed spending.

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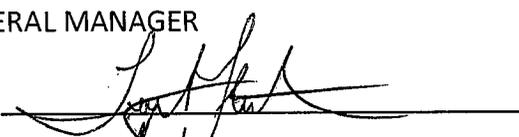
Project Name: Arthur V Watkins Dam Enlargement – FEASIBILITY STUDY

Head of the organization making request: Name: TAGE FLINT

Title: GENERAL MANAGER

Signature: _____

Date: _____


4/6/09

Senator Robert F. Bennett FY2010 Appropriations Request Form

Date: March 3, 2009

Requesting Organization:	Weber Basin Water Conservancy District	Address:	2837 East Highway 193 Layton, UT 84040		
Organization Point of Contact:	Tage Flint, General Manager and CEO	Phone:			
Address:	2837 East Highway 193 Layton, UT 84040	Email:			
DC Representation: (If any)	Marcus Faust	Phone:			
Address:	332 Constitution Avenue, NE Washington, DC 20002	Email:			
Name of Project:	Arthur V Watkins Dam Enlargement Feasibility Study	Total # of Projects Requested	4	Priority #:	1
Name of Grantee:		Address:			

Suggested Appropriations Bill:	Energy and Water Development Appropriations
Suggested Account in Bill:	U.S. Bureau of Reclamation
Are you submitting this request to other offices?	If yes, please list: Senator Hatch/ Cong. Bishop
Total Amount of Federal Funding Requested for Fiscal Year 2010:	\$1,000,000
Is any of this Funding Included in the President's Budget Request?	No
Anticipated Future Funding Requests (amounts and years):	Yes – funds will be needed to continue into construction
Local and State Funding Sources and Amounts:	
Other Federal Funding Sources and Amounts:	
If this is a Transportation Request, is it listed on the TIP or STIP?	<input type="checkbox"/> Yes <input type="checkbox"/> No
If this is an Energy & Water Request, please include a statutory authorization for the request:	Federal legislation was passed and authorized the feasibility study - Public Law No: 110-229 Consolidated Natural Resources Act of 2008 – Title V - Section 504

Project Funding History

Fiscal Year	Amount Appropriated	Appropriations Bill	Account
2009			
2008			
2007			
2006			
Federal Agency Advocate (name, office, e-mail and phone number):			
State Agency Advocate (name, office, e-mail and phone number):			

One Sentence Statement of Purpose for the Project.

Federal Funding will allow the Secretary of the Interior to conduct a feasibility study to enlarge the Arthur V. Watkins Dam.

Detailed Description the Project.

If you wish, you may submit a separate white paper with additional details.

Federal funds will allow the Secretary of the Interior to conduct a feasibility study to enlarge the Arthur V. Watkins Dam. The structure of the dam needs to be updated and enlargement is needed to maximize water storage so the Weber Basin Project can continue to meet water supply needs along the Wasatch Front in Utah.

Twelve miles northwest of Ogden on the shore of the Great Salt Lake, the Arthur V. Watkins Dam is an offstream structure with a structural height of 36 feet. The dam is about 14.5 miles long in a rough rectangle, contains about 17 million cubic yards of material, and encloses a reservoir of 215,120 acre-foot capacity.

The Arthur V. Watkins Dam/ Willard Bay Reservoir (Willard Bay) is a major Weber Basin Project feature and was constructed in four planned phases and was completed in 1990. Willard Bay is a vital water source for the Weber Basin Project. It stores and regulates winter power releases, surplus high flows originating below the upstream reservoirs, upstream spills, fish releases, and return flow from higher diversions. These flows are diverted at the Slaterville Diversion Dam (Weber River) and travel through the Willard gravity canal to Willard Bay.

Willard Bay is a multiple use reservoir providing water for irrigation of project lands, municipal and industrial water for a growing population (over 500,000 people), and for recreation. Willard Bay has one of the very highest use rates for recreation in the state of Utah and fish and wildlife including the Harold S. Crane and Ogden Bay Water Fowl Management Areas.

Currently, Willard Bay water rights are approved at 250,000 acre-feet (AF) per year. However, Willard Bay was constructed to capture and store only 215,000 AF. The difference of 35,000 AF could be stored and utilized in an enlarged Willard Bay. Additional storage capacity is needed to utilize the full Willard Bay water right. In addition, the Weber Basin Project has already received Warren Act Authority to store non-project water in an enlarged Willard Bay facility to better manage and coordinate water deliveries. Because of the large surface area of the reservoir, the additional storage capacity can be achieved by adding just a few feet to the height of the dam.

State Exactly How the FY10 Funds would be Allocated.

Funds would be used for feasibility studies

Justification for the Use of Taxpayer Funds for the Project.

This would maximize capacity for the Weber Basin Project.

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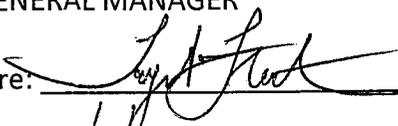
Going forward, Senator Bennett will continue to work to represent Utah's interests by ensuring Utah's priorities are adequately represented with congressionally directed spending.

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Project Name: Arthur V Watkins Dam Enlargement - Construction

Head of the organization making request: Name: TAGE FLINT

Title: GENERAL MANAGER

Signature: 

Date: 4/6/09

Senator Robert F. Bennett FY2010 Appropriations Request Form

Date: March 3, 2009

Requesting Organization:	Weber Basin Water Conservancy District	Address:	2837 East Highway 193 Layton, UT 84040		
Organization Point of Contact:	Tage Flint, General Manager and CEO	Phone:			
Address:	2837 East Highway 193 Layton, UT 84040	Email:			
DC Representation: (If any)	Marcus Faust	Phone:			
Address:	332 Constitution Avenue, NE Washington, DC 20002	Email:			
Name of Project:	Arthur V Watkins Dam Enlargement - Construction	Total # of Projects Requested	3	Priority #:	2
Name of Grantee:		Address:			

Suggested Appropriations Bill:	Energy and Water Development Appropriations
Suggested Account in Bill:	U.S. Bureau of Reclamation
Are you submitting this request to other offices?	If yes, please list: Senator Hatch/ Cong. Bishop
Total Amount of Federal Funding Requested for Fiscal Year 2010:	\$10,000,000
Is any of this Funding Included in the President's Budget Request?	No
Anticipated Future Funding Requests (amounts and years):	Yes – funds will be needed to continue into construction
Local and State Funding Sources and Amounts:	100% federal share
Other Federal Funding Sources and Amounts:	
If this is a Transportation Request, is it listed on the TIP or STIP?	<input type="checkbox"/> Yes <input type="checkbox"/> No
If this is an Energy & Water Request, please include a statutory authorization for the request:	Federal legislation was passed and authorized construction - the Weber Basin Project Act of August 29, 1949 (PL 81-273)

Project Funding History

Fiscal Year	Amount Appropriated	Appropriations Bill	Account
2009			
2008			
2007			
2006			
Federal Agency Advocate (name, office, e-mail and phone number):			
State Agency Advocate (name, office, e-mail and phone number):			

One Sentence Statement of Purpose for the Project.

Federal Funding would be used to enlarge the Arthur V. Watkins Dam.

Detailed Description the Project.

If you wish, you may submit a separate white paper with additional details.

Federal funds will be used to enlarge the Arthur V. Watkins Dam. The structure of the dam needs to be updated and enlargement is needed to maximize water storage so the Weber Basin Project can continue to meet water supply needs along the Wasatch Front in Utah.

Twelve miles northwest of Ogden on the shore of the Great Salt Lake, the Arthur V. Watkins Dam is an offshore structure with a structural height of 36 feet. The dam is about 14.5 miles long in a rough rectangle, contains about 17 million cubic yards of material, and encloses a reservoir of 215,120 acre-foot capacity.

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Currently, Willard Bay water rights are approved at 250,000 acre-feet (AF) per year. However, Willard Bay was constructed to capture and store only 215,000 AF. The difference of 35,000 AF could be stored and utilized in an enlarged Willard Bay. Additional storage capacity is needed to utilize the full Willard Bay water right. In addition, the Weber Basin Project has already received Warren Act Authority to store non-project water in an enlarged Willard Bay facility to better manage and coordinate water deliveries. Because of the large surface area of the reservoir, the additional storage capacity can be achieved by adding just a few feet to the height of the dam.

State Exactly How the FY10 Funds would be Allocated.

Funds would be used for construction

Justification for the Use of Taxpayer Funds for the Project.

This would maximize capacity for the Weber Basin Project.

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Note: A signed addendum must be returned for **each appropriations request submitted** for Fiscal Year 2010.

Project Name: Automated Electric Transportation System

Head of the organization making request: Name: Stan L. Albrecht

Title: President, Utah State University

Signature: 

Date: April 2, 2009

Senator Robert F. Bennett
FY2010 Appropriations Request Form

Date:	March 6, 2009
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Requesting Organization:	Utah State University	Address:	1455 Old Main Hill, Logan, UT 84322-1455		
Organization Point of Contact:	Michael J. Kennedy	Phone:			
Address:	USU, 1455 Old Main Hill, Logan, UT 84322-1455	Email:			
DC Representation: (If any)	David B. Lee, Lee and Smith, PC	Phone:			
Address:	2526 L Street, NW, Washington, DC 20037	Email:			
Name of Project:	Automated Electric Transportation System	Total # of Projects Requested	24	Priority #:	
				Subcmte.	3
				USU	7
				USU/SDL Combined	9
Name of Grantee:	Utah State University	Address:	1455 Old Main Hill, Logan, UT 84322-1455		

Suggested Appropriations Bill:	FY10 Energy and Water Appropriations				
Suggested Account in Bill:	Department of Energy, Energy Efficiency and Renewable Energy Account, Transportation				
Are you submitting this request to other offices?	No. If yes, please list:				
Total Amount of Federal Funding Requested for Fiscal Year 2010:	\$2,000,000				
Is any of this Funding Included in the President's Budget Request?	No.				
Anticipated Future Funding Requests (amounts and years):	A larger programmatic request will be made in the next Surface Transportation Authorization Bill.				
Local and State Funding Sources and Amounts:					
Other Federal Funding Sources and Amounts:	<p>The Utah Transportation Center is a federally funded transportation center that receives approximately \$400,000 per year through an earmark in SAFETEA-LU (an authorization bill). This funding is for fiscal years 2007 through 2010.</p> <p>The Utah State Legislature earmarked \$1,000,000 for structural bridge research, in cooperation with FHWA and UDOT, during its 2006 session. This money is being used as match to federal research program dollars.</p> <p>In May of this year, Utah Transportation Center researchers were awarded a share of the Federal Long Term Bridge Performance Project, which will amount to contracts totaling \$5 million over the next five years.</p> <p>Over the past 4 fiscal years, approximately 20 research projects have been performed by PI's within the Department of Civil and Environmental Engineer for FHWA and UDOT, with a total value exceeding \$1 million dollars.</p> <p>The USU Energy Lab has received \$6.5 million over 5 years for algae biofuels research. The Lab sees a natural extension of their research as diesel-fueled hybrid-electric vehicles. Further, the Lab is using existing relationships and knowledge of emerging USDOE R&D programs to position USU for growth in interdisciplinary energy R&D.</p>				
If this is a Transportation Request, is it listed on the TIP or STIP?	N/A <input type="checkbox"/> Yes <input type="checkbox"/> No				
If this is an Energy & Water Request, please include a statutory authorization for the request:	Public Law 110-140; 42 USC 17011; Energy Independence and Security Act of 2007; Title I Energy Security Through Improved Vehicle Fuel Economy				

Project Funding History

Fiscal Year	Amount Appropriated	Appropriations Bill	Account
2009			
2008			
2007			
2006			

Federal Agency Contact (name, office, e-mail and phone number):	
State Agency Contact (name, office, e-mail and phone number):	

One Sentence Statement of Purpose for the Project.

To develop a detailed roadmap of the necessary research, implementation strategies, and federal programs that would be required to develop an all electric highway system. Further, the activity would further solidify USU as an anchoring member of a top-tier research team being formed by the Oak Ridge National Laboratory.

Detailed Description the Project.

If you wish, you may submit a separate white paper with additional details.

EXPANDED PURPOSE: The vision espoused by this project is an electric highway that provides energy directly to light and heavy duty vehicles, eliminating the use of petroleum and the production of CO₂ by vehicles. Ideally, there would be no use of internal combustion by any type of vehicle. The synergistic advantage of real time energy transfer between roadway and automobile is that while energy is being transferred the system can also transfer information between the roadway and automobile. This would not be third rail or overhead wire type of system, but one utilizing wireless energy and information transfer between roadway and vehicle. The name applied to such a system is the MobilElectric Highway System.

The reality of such a vision being automated roadways, with freight and autos running in separated lanes, all vehicles powered by electricity; the advantages being no petroleum consumption, no vehicular CO₂ production, and increased throughput on our roadways which will reduce the need for roadway expansion and ease the fiscal shortfall in funds needed to maintain the nation's roadways. In fact, the need for infrastructure improvements plays right along with the concept of an electric highway. As the technology matures, and as the roadway infrastructure is rebuilt, it will be rebuilt as an electric roadway infrastructure.

Ultimately, the United States (and hopefully the world) will have automated, electric powered vehicles running in a more efficient fashion (less or even no congestion) on a rebuilt infrastructure of electric highways.

The benefits of merging vehicle, roadway, communication and energy infrastructures using electricity will be a reduced dependence on foreign oil, with its accompanying impact on foreign policy, a reduced need to utilize valuable farmland to produce fuels. The transition to point source production of energy, rather than individual carriers of energy, will allow a more efficient use of natural gas, clean coal, nuclear technology (fission and potentially, fusion), and renewable sources. This point source production of electrical energy to power automobiles will also simplify the issue of carbon sequestration, thereby reducing the overall production of greenhouse gases.

The transition of an operator controlled vehicular system to one that takes the human element out of the control and navigation loop will allow for more increased mobility, and safety, through increased vehicular capacity on existing roadways, the separation of freight and autos, elimination of operator fatigue, and reduced travel times.

State Exactly How the FY10 Funds would be Allocated.

These funds would be allocated to the College of Engineering and shared between the Utah Transportation Center and the USU Energy Lab. The Utah Transportation Center would receive \$1,000,000 of the request to fund faculty, and students in the study of the logistics of changing from the current highway system to an automated electric transportation system. The USU Energy Lab would receive \$1,000,000 to fund faculty, students and research engineers in support of research examining integration of the transfer between roadway and automobiles of energy into the roadway infrastructure. The allocation of funds to these two university entities would follow standard university research contract procedures including F&A charges.

Justification for the Use of Taxpayer Funds for the Project.

JUSTIFICATION: The world's use of petroleum as an energy source, and the accompanying creation of green house gases, is an issue that must be dealt with. In the United States the surface transportation system, principally autos, trucks (light and heavy) and buses, accounts for more than half of the daily petroleum consumption of this country; this is more than 25% of the world's daily production of petroleum. In barrels of oil, this means that over 10 million barrels a day are used by autos, trucks and buses; with the total United States consumption of oil being 19.3 million barrels per day.

One result of this petroleum consumption is that light duty vehicles in the United States are responsible for 45% of the world's CO₂ production (one-third of the U.S. CO₂ production). In the United States there are 230 million registered vehicles, this is 30% of the world's automobiles, owned by five percent of the world's population. These vehicles produce 314 million metric tons of CO₂ per year.

These statistics show the dire need to eliminate the use of petroleum to provide energy to automobiles. The United States must lead the way, as we have the research and industrial prowess to devise ways of providing clean energy to vehicles, eliminating both the use of petroleum and the creation of CO₂. Once the United States has developed such technologies for automobiles, we must transfer that technology overseas for use in other countries, particularly emerging economic giants like China. Currently China has over 20 million light duty vehicles that produce two percent of the world's CO₂. There are forecasts that indicate China will have 140 million vehicles in the year 2020, and ultimately will have a fleet that could be as large as 250 million light duty vehicles.

If we solve the companion problems of petroleum use and CO₂ production in the United States, with our 230 million vehicles, but let China reach a fleet of 250 million petroleum burning vehicles, we will have, at best, only maintained the status quo. By exporting the new

automotive technologies that we can develop in the United States to countries like China, and India, then we not only reduce the 45% of the world's CO₂ production (by the U.S.), but we keep China's share from growing to the 45% share, and in fact reduce it from the current 2% to zero.

USU Contact:

Kevin Womack, Director
Utah Transportation Center
Utah State University
Department of Civil and Environmental Engineering
4110 Old Main Hill
Logan, UT 84322-4110

Jeff Muhs, Director
Energy Lab
Utah State University
9645 Old Main Hill
Logan, UT 84322-9645

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Fiscal Year 2010

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Project Name: Bayview Gas to Energy Project _____

Head of the organization making request: Name: Richard Henry _____

Title: District Manager _____

Signature: Richard Henry

Date: March 24, 2008 _____

Senator Robert F. Bennett
FY2010 Appropriations Request Form

Date: February 26, 2009

Requesting Organization:	South Utah Valley Solid Waste District	Address:	P.O. Box 507 Springville, UT 84663	
Organization Point of Contact:	Richard Henry	Phone:		
Address:	P. O. Box 507, Springville, UT 84663	Email:		
DC Representation: (If any)	N/A	Phone:		
Address:		Email:		
Name of Project:	Bayview Gas to Energy Project	Total # of Projects Requested	1	Priority #: 1
Name of Grantee:	South Utah Valley Solid Waste District	Address:	P. O. Box 507 Springville, Utah 84663	

Suggested Appropriations Bill:	Energy & Water
Suggested Account in Bill:	Energy Efficiency and Renewable Energy (EERE)
Are you submitting this request to other offices?	Yes <input type="checkbox"/> If yes, please list: Senator Orrin Hatch Representative Jason Chaffetz
Total Amount of Federal Funding Requested for Fiscal Year 2010:	\$1,450,000
Is any of this Funding Included in the President's Budget Request?	No
Anticipated Future Funding Requests (amounts and years):	None, if fully funded this year.
Local and State Funding Sources and Amounts:	EERE awards require a 50 percent local share of the total cost. In this instance, \$1,450,000 would be provided by the South Utah Valley Solid Waste District from revenue generated by tipping fees.
Other Federal Funding Sources and Amounts:	None
If this is a Transportation Request, is it listed on the TIP or STIP?	<input type="checkbox"/> Yes <input type="checkbox"/> No NOT APPLICABLE
If this is an Energy & Water Request, please include a statutory authorization for the request:	Section 224 of the Energy Independence and Security Act of 2007 (P.L. 110-140) amended Section 932 of the Energy Policy Act of 2005 (42 USC 16232) to include a program of research, development, demonstration, and commercial application for increasing energy efficiency and reducing energy consumption in the operation of biorefinery facilities.

Project Funding History

Fiscal Year	Amount Appropriated	Appropriations Bill	Account
2009	N/A		
2008	N/A		
2007	N/A		
2006	N/A		
Federal Agency Advocate (name, office, e-mail and phone number):	Valri Lightner, Acting Program Manager, Biomass Program, Energy Efficiency and Renewable Energy, Department of Energy, eerc_biomass@cc.doc.gov, (877) 337-3463		
State Agency Advocate (name, office, e-mail and phone number):			

One Sentence Statement of Purpose for the Project.

This project would address core environmental concerns by constructing a power plant capable of converting methane gas produced in a local landfill into green power, with the added benefit of creating both short-term and long-term employment opportunities.

Detailed Description the Project.

If you wish, you may submit a separate white paper with additional details.

Overview

research is the Biomass Program, a subset of EERE, which is dedicated to the advancement of conversion technologies. Through research, development, and demonstration efforts geared toward the development of integrated biorefineries, the Biomass Program is helping transform the Nation's renewable and abundant biomass resources into cost competitive, high performance biofuels, bioproducts, and biopower. The Biomass Program focuses its efforts on further developing infrastructure and opportunities for market penetration of bio-based fuels and products.

Section 224 of the Energy Independence and Security Act of 2007 (P.L. 110-140) amended Section 932 of the Energy Policy Act of 2005 (42 USC 16232) to include a program of research, development, demonstration, and commercial application for increasing energy efficiency and reducing energy consumption in the operation of biorefinery facilities.

Definition

Bioenergy is renewable energy made from any organic material from plants or animals. Sources of bioenergy are called "biomass," and include agricultural and forestry residues, municipal solid wastes, industrial wastes, and terrestrial and aquatic crops grown solely for energy purposes. Biomass is an attractive petroleum alternative because it is a renewable resource that is more evenly distributed over the Earth's surface than finite energy sources, and may be exploited using more environmentally-friendly technologies. Today, biomass resources are used nationwide to generate electricity and power, and to produce liquid transportation fuels, such as ethanol, methanol, and biodiesel.

Project Scope

This project would address core environmental concerns by converting the methane gas produced in a local landfill into a source of energy. The project would create short-term jobs in the construction phase and long-term jobs to operate the equipment after construction. The power produced as either burnable gas or electricity would be green power which would play a part in the protection of our environment.

Waste in a landfill goes through a process of disintegration. This process forms gases, which eventually escape from the landfill. When these gases are captured they can be cleaned and used as a heat source or used in turbines to create electricity. This process allows the gases to be used rather than released into the air.

SUVSWD retained a nationally recognized Engineering Firm to test Bayview Landfill to determine the amount of methane gas was being emitted by the landfill. They determined that the amount of gas emitted was sufficient to support a gas to energy system. The landfill at Bayview is emitting enough gas to come under the regulations which will require the gas to be captured and if not used to create energy will have to be burned.

In order to enable SUVSWD to control the gas in the way which will least negatively affect the environment they will need to build a gas-to-energy power plant. The total cost of this power plant is \$2,900,000. To meet this critical need in Utah County, the South Utah Valley Solid Waste District requests \$1,450,000 in federal assistance. EERE awards require a 50/50 local cost-share, which SUVSWD would provide from tipping fee revenue.

State Exactly How the FY10 Funds would be Allocated.

The total cost of the project is \$2,900,000, which would be used for both project planning as well as construction costs. Wells will be drilled to collect the gas. The gas will then be piped to the turbine facility. The turbines and all of the controls will be housed inside a dedicated structure. The electricity produced will be transmitted to a major transmission line less than one half-mile from the proposed facility. All of the funds will be allocated to the engineering, construction start-up and testing of the project.

Justification for the Use of Taxpayer Funds for the Project.

This project will meet two major goals. The first is to improve the environment by keeping the gases produced by the landfill out of the atmosphere. Landfills gas is a recognized contributor to air quality issues. Properly removing the gas from the atmosphere will help a county which has proven air quality concerns. The electricity produced is considered green power and the production of it will improve our community. The construction will create jobs in a time when many are unemployed. After completing the construction full time employees will be needed to run the facility. We have tested the amount of gas being produced by the landfill and have been advised by a nationally recognized engineering firm that we are producing sufficient gas to support the proposed facility.

ADDENDUM

Senator Robert F. Bennett Appropriation Disclosure Requirements Fiscal Year 2010

Under the new disclosure requirements announced at the beginning of the 111th Congress by the Senate and House Appropriations Committees, all Members of Congress are required to post on their websites each appropriations request they submit to the respective subcommittees. The information must include an explanation of the project, a justification for the request, and the requesting entity.

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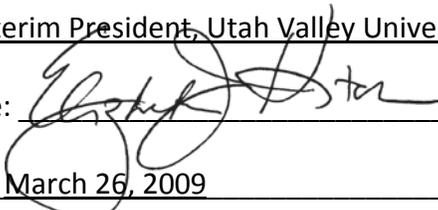
Going forward, Senator Bennett will continue to work to represent Utah's interests by ensuring Utah's priorities are adequately represented with congressionally directed spending.

Note: A signed addendum must be returned for **each appropriations request submitted** for Fiscal Year 2010.

Project Name: Center for Botanical Studies

Head of the organization making request: Name: Elizabeth J. Hitch

Title: Interim President, Utah Valley University

Signature:  _____

Date: March 26, 2009

**Senator Robert F. Bennett
FY2010 Appropriations Request Form**

Date: March 5, 2009

Requesting Organization:	Utah Valley University	Address:	800 West University Parkway Orem, Utah 84058		
Organization Point of Contact:	Elaine D. Englehardt, Ph.D. Special Assistant to the President Distinguished Professor of Ethics	Phone:			
Address:	800 West University Parkway Orem, Utah 84058	Email:			
DC Representation: (If any)	Drew Hiatt Executive Vice President Policy Impact Communications	Phone:			
Address:	1401 K Street, NW, Suite 600 Washington, D.C. 20005	Email:			
Name of Project:	Center for Botanical Studies	Total # of Projects Requested	3	Priority #:	1
Name of Grantee:	Utah Valley University	Address:	800 West University Parkway Orem, Utah 84058		

Suggested Appropriations Bill:	Commerce, Justice, Science or Energy and Water	
Suggested Account in Bill:	NASA – Cross Agency Support; DOE – Science	
Are you submitting this request to other offices?	Yes	If yes, please list: Senator Hatch, Representative Bishop, Representative Matheson, Representative Chaffetz
Total Amount of Federal Funding Requested for Fiscal Year 2010:	\$1,770,000	
Is any of this Funding Included in the President's Budget Request?	No	
Anticipated Future Funding Requests (amounts and years):	One-time request	
Local and State Funding Sources and Amounts:	UVU has raised \$230,000 to date toward the Center for Botanical Studies	
Other Federal Funding Sources and Amounts:	N/A	
If this is a Transportation Request, is it listed on the TIP or STIP?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
If this is an Energy & Water Request, please include a statutory authorization for the request:		

Project Funding History

Fiscal Year	Amount Appropriated	Appropriations Bill	Account
2009	N/A	N/A	N/A
2008	N/A	N/A	N/A
2007	N/A	N/A	N/A
2006	N/A	N/A	N/A
Federal Agency Advocate (name, office, e-mail and phone number):	N/A		
State Agency Advocate (name, office, e-mail and phone number):	N/A		

One Sentence Statement of Purpose for the Project.

Utah Valley University is seeking federal funding for a Center for Botanical Studies, including greenhouse and herbarium facilities, to provide additional potential training for biotechnology students as well as organismal biology majors and would also help support UVU's new degree in Botany.

Detailed Description the Project.

If you wish, you may submit a separate white paper with additional details.

Utah Valley University is seeking a greenhouse complex to be associated with the Health Sciences Complex. This greenhouse addition would provide additional potential training for biotechnology students as well as organismal biology majors and would also help support

UVU's new degree in Botany. UVU has raised \$230,000 toward the Botany Center. Total project costs are \$2,000,000.

Funding is needed for a Center for Botanical Studies, including greenhouse and herbarium facilities, on the Utah Valley University (UVU) campus in Orem, Utah. These facilities are critically needed for the biology and biology education programs at UVU, serving approximately 1400 majors. Many of UVU's biology majors are preparing for graduate school and careers in education, land management, and natural resources, as well as professional programs in medicine, dentistry, and related fields. The proposed Botany Center will significantly strengthen the undergraduate research opportunities as well as the educational facilities available to our students, giving them a much broader educational experience. Our Biology Department's 16 faculty and five full time staff provide classes leading to Bachelor of Science degrees in biology and biology education and an Associate in Science degree with biology emphasis. In addition we provide supporting classes to over 4,000 students in other majors.

The Center for Botanical Studies will facilitate botany and biology courses at the University. The Botany Center will also promote practical undergraduate research projects to expand potential as well as support faculty and students involved in botanical studies. The greenhouse facilities at UVU currently consist of a small "hothouse" of approximately 350 square feet. To properly support courses such as plant physiology (BOT 4600), plant biology (BOT 3340), plant kingdom (BOT 2400), and others with corresponding labs, full-scale greenhouses with separate climate controls are necessary. The proposed greenhouses would also facilitate activities associated with developmental biology and plant tissue courses and laboratories. In addition, faculty would have the needed facility to sponsor student undergraduate research projects that engage them in studies in seed germination, plant development, reproductive and pollination biology, and various genetic studies in genera of rare and endangered species. The facility will also foster the study of species important in agriculture, both food and forage plants, as well as noxious weeds.

The UVU Herbarium collection has grown rapidly over the last 10 years. Great efforts have been made to acquire pressed plant specimens and make them available to students and faculty involved in field and laboratory botany courses. Currently our collection numbers approximately 10,000 specimens and represents nearly 50 percent of the flora of Utah. One part-time assistant curator and student volunteers manage this collection, which has become important in the state. This collection currently lacks a permanent repository. Specimen cabinets have been placed in disparate locations making this facility less useful than it might otherwise be. Some herbarium cabinets are housed in the botany lab, but the majority is in hallways of the UVU Biology Departmental areas. Our goal for the UVU Herbarium is to house 35,000-40,000 accessions within the next decade. Our intent is to complete a collection of the Utah regional flora with an emphasis on locations that are under-represented in other state herbaria. We are also interested in a comprehensive collection of noxious plants inimical to the health of wild ecosystems.

Through a successful National Science Foundation (NSF) grant, UVU faculty created an award winning, highly utilized "on-line" Herbarium. Currently it assists colleges, universities, and other schools throughout the country with the identification of plants of all types. It also serves as a model for other herbaria.

State Exactly How the FY10 Funds would be Allocated.

For this project, UVU requests federal assistance for the following:

1. Greenhouse facility: 3 separately controlled greenhouses; a head house including a preparation room; 2 climate control chambers; 2 offices; a storage room; and a classroom for 40 students.
2. Herbarium facility: a laboratory to house 50 herbarium cabinets; a research laboratory with 2 offices; 1 classroom; a small library; a microscope room; a specimen preparation room; and a specimen observation area. These two facilities would be in a common location with the structures being complementary to each other. We hope to provide the type of educational experience for our students to make a practical difference in public and private land management.

Budget:

Greenhouse Facility

3 Separately controlled greenhouses	\$400,000
Head house including a preparation room	\$100,000
2 Climate control chambers	\$200,000
2 Offices	\$100,000
Storage room	\$100,000
Classroom for 40 students	\$100,000

Herbarium Facility \$1,000,000

Laboratory to house 50 herbarium cabinets	
Research laboratory with 2 offices	
1 Classroom	
Small library	
Microscope room	
Specimen preparation room	
Specimen observation area	

Project total \$2,000,000

Justification for the Use of Taxpayer Funds for the Project.

Funding is needed for a Center for Botanical Studies, including greenhouse and herbarium facilities, on the Utah Valley University (UVU) campus in Orem, Utah. These facilities are critically needed for the biology and biology education programs at UVU, serving approximately 1400 majors. The proposed Botany Center will significantly strengthen the undergraduate research opportunities as well as the educational facilities available to our students, giving them a much broader educational experience.

The greenhouse would facilitate activities associated with developmental biology and plant tissue courses and laboratories. In addition, faculty would have the needed facility to sponsor student undergraduate research projects that engage them in studies in seed germination, plant development, reproductive and pollination biology, and various genetic studies in genera of rare and endangered species. The facility will also foster the study of species important in agriculture, both food and forage plants, as well as noxious weeds. Our goal for the UVU Herbarium is to house 35,000-40,000 accessions within the next decade. Our intent is to complete a collection of the Utah regional flora with an emphasis on locations that are under-represented in other state herbaria.

ADDENDUM

Senator Robert F. Bennett Appropriation Disclosure Requirements Fiscal Year 2010

Under the new disclosure requirements announced at the beginning of the 111th Congress by the Senate and House Appropriations Committees, all Members of Congress are required to post on their websites each appropriations request they submit to the respective subcommittees. The information must include an explanation of the project, a justification for the request, and the requesting entity.

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Going forward, Senator Bennett will continue to work to represent Utah's interests by ensuring Utah's priorities are adequately represented with congressionally directed spending.

Note: A signed addendum must be returned for **each appropriations request submitted** for Fiscal Year 2010.

Project Name: Clean Coal Prototype Power Plant

Head of the organization making request: Name: Dinesh K. Shetty

Title: President

Signature: Dinesh K. Shetty

Date: April 28, 2009

Senator Robert F. Bennett
FY2010 Appropriations Request Form

Date:	March 6, 2009
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Requesting Organization:	Materials and Systems Research, Inc.	Address:	5395 West 700 South Salt Lake City, UT 84104		
Organization Point of Contact:	Anthony Decheek	Phone:			
Address:	5395 West 700 South Salt Lake City, UT 84104	Email:			
DC Representation: (If any)		Phone:			
Address:		Email:			
Name of Project:	Clean Coal Prototype Power Plant	Total # of Projects Requested	1	Priority #:	1
Name of Grantee:	Anthony Decheek	Address:	5395 West 700 South Salt Lake City, UT 84104		

Suggested Appropriations Bill:	Energy and Water
Suggested Account in Bill:	Energy Efficiency and Renewable Energy, Fossil Energy
Are you submitting this request to other offices? Yes	If yes, please list: Senator Hatch Representative Bishop
Total Amount of Federal Funding Requested for Fiscal Year 2010:	\$3 million
Is any of this Funding Included in the President's Budget Request?	No
Anticipated Future Funding Requests (amounts and years):	The company's investors expect federal participation only in the early stages of the development of the technology.
Local and State Funding Sources and Amounts:	\$2.148 million in funds for this project will come from Direct Carbon Technologies (DCT), MSRI's partner in this project, in 2010. DCT plans a \$6 million offering of Preferred Shares in the third quarter of 2009 and a \$20 million offering in fourth quarter of 2011.
Other Federal Funding Sources and Amounts:	Previous DCT work on the development of the Direct Carbon Fuel Cell benefited from FY08 Energy and Water funding in the amount of \$750,000 (supported by Representative Eshoo) and allocated through a DOE grant (DOE Grant number DE-NT0004395). DCT also provided 20% in matching funds (August 14, 2008 - August 13, 2009) for a total of \$885,734. DCT work on the Direct Carbon Fuel Cell has also benefited from two Small Business Innovation Research programs supported through the National Science Foundation (NSF): * NSF Grant number: OII-610271 for \$100,000 (July 1-December 31, 2006) * NSF Grant number: IIP-0610271 for \$50,000 (January 1-June 30, 2007)
If this is a Transportation Request, is it listed on the TIP or STIP?	<input type="checkbox"/> Yes <input type="checkbox"/> No
If this is an Energy & Water Request, please include a statutory authorization for the request:	Energy Policy Act of 2005, Title IV - Coal, Subtitle C - Clean Air Coal Program, Section 421. Amendment to the Energy Policy Act of 1992.

Project Funding History

Fiscal Year	Amount Appropriated	Appropriations Bill	Account
2009			
2008	\$750,000	Energy and Water	Energy Efficiency and Renewable Energy
2007			
2006			
Federal Agency Advocate (name, office, e-mail and phone number):	N/A		
State Agency Advocate (name, office, e-mail and phone number):	N/A		

One Sentence Statement of Purpose for the Project.

The proposed "Clean Coal Prototype Power Plant" is a one-year, \$5+ MM project to build and test a novel proprietary "Direct Carbon Fuel Cell" 10 kilowatt power plant that converts coal, biomass and other carbonaceous solids directly into electricity at nearly twice the efficiency of today's coal power plants.

Detailed Description the Project.

If you wish, you may submit a separate white paper with additional details.

The proposed project funds will be used to produce an operational 10 kilowatt system that will be the modular building block of much larger power plants.

This novel technology is critically important for the general public in three very important ways:

- 1) for the energy security of our country since US holds the largest coal reserves in the world. This technology will dramatically reduce our energy dependence to foreign resources.
- 2) for our environment, particularly in regards to green house gas emissions, since it cuts down the amount of green house gas emissions to half, and also provides capture ready CO₂ that does not need further separation.
- 3) for our water supplies in our country, since this technology does not require or consume water, a resource that is becoming increasingly precious and scarce.

In the five to ten year term, this new technology will provide critically needed solutions to how this nation's coal resource can be utilized economically without a negative impact on climate and environment.

Materials and Systems Research, Inc. - in partnership with Direct Carbon Technologies, LLC - is currently building a 1 kilowatt prototype in its Salt Lake City facility, which will be completed in late 2009, and tested and operated continuously 24/7. Previously, proof-of-concept work was done on a bench-top, scientific prototype in 2007. The results of this early work was disseminated to the public by publications in peer reviewed journals (see references below):

1. A. C. Lee, S. Li, R. E. Mitchell, and T. M. Gür, *Conversion of Solid Carbonaceous Fuels in a Fluidized Bed Fuel Cell*, Electrochem. Solid State Lett. **11**(2), B20 (2008)
2. S. Li, A. C. Lee, R. E. Mitchell, and T. M. Gür, *Direct Carbon Conversion in a Helium Fluidized Bed Fuel Cell*, Solid State Ionics **179**, 1549 (2008)
3. Andrew C. Lee, Reginald E. Mitchell, and Turgut M. Gür, *Modeling of CO₂ Gasification of Carbon for Integration with Solid Oxide Fuel Cells*, AIChE Journal (in press)

State Exactly How the FY10 Funds would be Allocated.

General Budget Information	
Direct Expenses	\$196,000
Lab Infrastructure	\$643,000
Capital Equipment	\$193,000
Electronic Instrumentation and Testing	\$210,000
Analytical Instrumentation	\$605,000
Ceramics Processing/Fabrication	\$438,000
Materials and Supplies	\$150,000
Operating Expenses	\$146,000
Contracting and Consulting	\$450,000
Staffing and Benefits	\$1,099,000
Overhead	\$550,000
Subtotal	\$4,680,000
Contingency (10%)	\$468,000
Project Total	\$5,148,000

Justification for the Use of Taxpayer Funds for the Project.

Federal funding would help MSRI to leverage increased private sector funding for the project.

ADDENDUM

Senator Robert F. Bennett Appropriation Disclosure Requirements
Fiscal Year 2010

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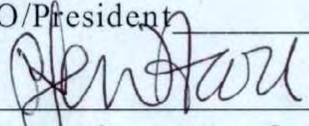
Going forward, Senator Bennett will continue to work to represent Utah's interests by ensuring Utah's priorities are adequately represented with congressionally directed spending.

Note: Assigned addendum must be returned for **each appropriations request submitted** for Fiscal Year 2010.

Project Name: Energy Management and Light Control Total Solution for Smart Homes, Buildings and Green Living and Future offered by InnoSys, a US based Manufacturer with Strong R&D Capability and Emphasis

Head of the organization making request: Name: Jennifer Hwu

Title: CEO/President

Signature: 

Date: 03/24/09

Senator Robert F. Bennett
FY2010 Appropriations Request Form

Date:	3/3/2009
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Requesting Organization:	InnoSys, Inc.	Address:	2900 South Main Street Salt Lake City, UT 84115		
Organization Point of Contact:	Jennifer Hwu	Phone:			
Address:	2900 South Main Street, Salt Lake City, UT 84115		Email:		
DC Representation: (If any)	Thomas Goldberg	Phone:			
Address:	1455 Pennsylvania Ave. NW, Washington DC 20005		Email:		
Name of Project:	Energy Management and Light Control Total Solution for Smart Homes, Buildings and Green Living and Future offered by InnoSys, a US based Manufacturer with Strong R&D Capability and Emphasis		Total # of Projects Requested	2	Priority #: 1
Name of Grantee:	Jennifer Hwu	Address:	2900 South Main Street, Salt Lake City, UT 84115		

Suggested Appropriations Bill:	Energy & Water				
Suggested Account in Bill:	Energy Efficiency and Renewable Energy Program				
Are you submitting this request to other offices?	If yes, please list: Sen. Hatch, Rep. Bishop, Rep. Matheson.				
Total Amount of Federal Funding Requested for Fiscal Year 2010:	\$1.5M				
Is any of this Funding Included in the President's Budget Request?	No.				
Anticipated Future Funding Requests (amounts and years):	If fully funded in FY'10, there will be no future funding requests for this project.				
Local and State Funding Sources and Amounts:	N/A				
Other Federal Funding Sources and Amounts:	N/A				
If this is a Transportation Request, is it listed on the TIP or STIP?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
If this is an Energy & Water Request, please include a statutory authorization for the request:	American Recovery and Reinvestment Act of 2009				

Project Funding History

Fiscal Year	Amount Appropriated	Appropriations Bill	Account
2009	NA	NA	NA
2008	NA	NA	NA
2007	NA	NA	NA
2006	NA	NA	NA
Federal Agency Advocate (name, office, e-mail and phone number):		TBD	
State Agency Advocate (name, office, e-mail and phone number):		N/A	

One Sentence Statement of Purpose for the Project.

InnoSys proposes to deploy and field its energy saving LED lighting products in a converted multi-purpose building at one the University of Utah.

Detailed Description the Project.

If you wish, you may submit a separate white paper with additional details.

InnoSys proposes to deploy and field its energy saving products in a converted multi-purpose building at one the University of Utah. This will allow it to become one of the very first energy efficient, smart lighting demonstration buildings anticipated by both the 2007 Energy Independence and Security Act and the Economic Stimulus proposals now before the Congress. The goal of this proposal is to (1) demonstrate the technology/product performance, superiority and inherent energy reduction and savings, (2) help the University of Utah to reduce its energy and facility maintenance cost, (3) demonstrate a smart building which is highly energy efficient as a model using products that are designed to be cost compatible and low cost for mass consumer acceptance, (4) establish actual energy saving/efficiency data with the Department of Energy for its broad market adoption of clean energy technologies, (5) to address the interests and needs of end users such as corporations looking to re-lamp for greater energy efficiency, legislators and regulatory agencies working to establish new standards for lighting, and lighting designers looking to enhance the overall aesthetics of energy efficient designs, and (6) establish initial quantity manufacturing to position itself for entering the global energy efficiency business by 2010.
--

State Exactly How the FY10 Funds would be Allocated.

\$1.5M Total Cost:

Total labor cost by task: \$800,000.00

Task 1 – Install LED Lamps and Controls in Test Facility - \$150,000.00

Task 2 – Test and Evaluate Configuration and Optimize Operational Parameters - \$200,000.00

Task 3 – Conduct Long-Term Energy Audit - \$450,000.00

All other direct costs - \$700,000.00

Total Cost - \$1,500,000.00

Justification for the Use of Taxpayer Funds for the Project.

There is an immediate need to produce and deploy high efficiency-low-energy lighting systems that will reduce reduce the demand for electric power, and thereby reduce emissions of CO₂.

ADDENDUM

Senator Robert F. Bennett Appropriation Disclosure Requirements Fiscal Year 2010

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Going forward, Senator Bennett will continue to work to represent Utah's interests by ensuring Utah's priorities are adequately represented with congressionally directed spending.

Note: A signed addendum must be returned for **each appropriations request submitted** for Fiscal Year 2010.

Project Name: Enhancement for the Intermountain Center for River Restoration and Rehabilitation (ICRRR)

Head of the organization making request: Name: Stan L. Albrecht

Title: President, Utah State University

Signature: 

Date: April 2, 2009

**Senator Robert F. Bennett
FY2010 Appropriations Request Form**

Date:	March 6, 2009
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Requesting Organization:	Utah State University	Address:	1455 Old Main Hill, Logan, UT 84322-1455		
Organization Point of Contact:	Michael J. Kennedy	Phone:			
Address:	USU, 1455 Old Main Hill, Logan, UT 84322-1455	Email:			
DC Representation: (If any)	David B. Lee, Lee and Smith, PC	Phone:			
Address:	2526 L Street, NW, Washington, DC 20037	Email:			
Name of Project:	Enhancement for the Intermountain Center for River Restoration and Rehabilitation (ICRRR)	Total # of Projects Requested	24	Priority #:	
				Subcmte. USU	5
				USU/SDL Combined	11
					14
Name of Grantee:	Utah State University	Address:	1455 Old Main Hill, Logan, UT 84322-1455		

Suggested Appropriations Bill:	FY10 Energy and Water Appropriations Bill				
Suggested Account in Bill:	Department of Energy; Science: Biological and Environmental Research Account				
Are you submitting this request to other offices?	No.		If yes, please list:		
Total Amount of Federal Funding Requested for Fiscal Year 2010:	\$600,000				
Is any of this Funding Included in the President's Budget Request?	No.				
Anticipated Future Funding Requests (amounts and years):	FY10 is the final year of funding for this request if FY09 funding is received.				
Local and State Funding Sources and Amounts:	ICRRR has received \$668,000 from state agencies; please see Extramural Funding Record below.				
Other Federal Funding Sources and Amounts:	ICRRR has received \$2,535,000 from federal agencies; please see Extramural Funding Record below.				
If this is a Transportation Request, is it listed on the TIP or STIP?	N/A <input type="checkbox"/> Yes <input type="checkbox"/> No				
If this is an Energy & Water Request, please include a statutory authorization for the request:					

Project Funding History

Fiscal Year	Amount Appropriated	Appropriations Bill	Account
2009	\$570,900	FY09 Omnibus Appropriations Bill	Department of Energy; Science: Biological and Environmental Research
2008			
2007	\$400,000	FY07 Energy & Water	DOE Science: Biological and Environmental Research
2006			
Federal Agency Contact (name, office, e-mail and phone number):	Dr. Arthur M. Katz, Office of Biological and Environmental Research, U.S. Department of Energy, 1000 Independence Avenue, SW, Washington, DC 20585-11290, akatz@oer.doe.gov		
State Agency Contact (name, office, e-mail and phone number):			

One Sentence Statement of Purpose for the Project.

The mission of ICRRR is to advance the science and practice of river restoration and environmental management and to transfer that knowledge to the public and private sectors.

Detailed Description the Project.

If you wish, you may submit a separate white paper with additional details.

EXPANDED PURPOSE: The mission of the ICRRR is to advance the science and practice of river restoration and environmental management and to transfer that knowledge to the public and private sectors. ICRRR conducts its work through completion of targeted research projects, providing decision support to federal agencies and adaptive management programs, evaluating the performance of previously constructed restoration projects, and teaching short courses about stream restoration methodology to practitioners.

Research efforts of ICRRR have been led by John C. Schmidt (professor of Watershed Sciences), Phaedra E. Budy (associate

professor of Watershed Sciences and USGS-Utah Cooperative Fish and Wildlife Research Unit assistant leader), and Scott W. Miller (post-doctoral research associate). Many graduate students and undergraduate technicians have been funded by these research efforts.

The success of ICRRR is measurable by the geographic range of its projects, the number of projects and the agencies with whom it collaborates, and the success of its short courses. ICRRR has played a significant role in the development of an emerging bi-national program to rehabilitate the Rio Grande in the Big Bend region of Texas and Mexico; manage and rehabilitate riverine resources of the Colorado River system, including in Grand Canyon National Park and Dinosaur National Monument; and, management of the Snake River in Grand Teton National Park and Hells Canyon National Recreation Area. These projects are funded by the BoR, National Park Service (NPS), Natural Resource Conservation Service (NRCS), and U. S. Geological Survey (USGS). ICRRR has also focused a large body of research on understanding the dynamics and controls of valued fisheries of the Intermountain West and on the aquatic ecosystems that are their foundation. ICRRR activities are now underway in Arizona, California, Colorado, Idaho, Nevada, Oregon, Texas, Utah, Washington, and Wyoming. In addition, Dr. Budy is collaborating in an international assessment of the distribution of brown trout as affected by climate change and habitat degradation. Dr. Budy and Dr. Schmidt are collaborating with Spanish scientists on issues of fisheries and dam management, and Dr. Schmidt is participating in a national assessment of the effects of controlled dam releases on downstream ecosystems (supported by the National Center for Ecological Analysis and Synthesis).

Since 2004, the summer short course program conducted by ICRRR annually reaches 40-50 individuals employed by state and federal agencies, as well as private sector environmental/engineering firms. The instructional team includes nationally ranked academics and professionals from the Johns Hopkins University, University of California-Berkeley, and University of Maryland.

We request \$600,000 in FY 2010 to continue to expand the activities of ICRRR. With continued funding, our program of short-course education for professionals in the science of stream restoration and support post-project monitoring can be accomplished. Coordination of watershed restoration activities among federal and state agencies will remain a primary focus.

ICRRR -- Extramural Funding Record
(awards since ~2006 = \$3,203,000)

Large River Rehabilitation (Schmidt)

Big Bend restoration (Rio Grande)	NPS	\$119,000
Glen Canyon Dam (Colorado River)	USGS	\$891,000
San Rafael River restoration	NRCS	\$105,000
Dinosaur Monument (Green/Yampa Rivers)	NPS	\$81,000
Walker River (NV) restoration	USFWS	\$125,000
Snake River {WY} management	NPS/USGS	\$95,000

Stream Restoration and Fisheries Management (Budy)

Factors affecting trout populations (Logan River)	Utah DWR/USFS/USU	\$594,000
Bull trout recovery	USFWS	\$847,000
San Rafael River endangered fishery	BoR	\$30,000
Whirling disease threats	USGS	\$196,000

Small Stream Restoration and Project performance (Miller)

Grazing exclosures as a restoration tool	Utah DWR/USU	\$62,000
Effects of irrigation diversions	USFS	\$46,000
Restoration project data base	Utah DWR	\$12,000

State Exactly How the FY10 Funds would be Allocated.

The allocation for this request is as follows: Labor (including fringe benefits): \$275,000; travel: \$20,000; other direct costs (materials/parts, equipment): \$179,000; indirect costs: \$125,000.

Justification for the Use of Taxpayer Funds for the Project.

Rivers and riverine ecosystems are under great stress in the western United States. River managers face increased demand for reliable water supplies of high quality while also needing to maintain habitat for threatened and endangered native aquatic and riparian species. Each of the large river systems of the West – the Missouri, Rio Grande, Colorado, Sacramento/San Joaquin, and Columbia – are presently managed with guidance from multi-stakeholder, adaptive management programs whose goals are to maximize production of water and hydroelectricity while maintaining environmental values. In some cases, these programs also seek to ensure protection of values of the national park system. Additionally, there is a widespread effort to restore small streams in the western U. S. The latter efforts are conducted by state fish and wildlife agencies such as the Utah Division of Wildlife Resources (Utah DWR), transportation departments, abandoned mined land programs, the U. S. Forest Service (USFS), U. S. Fish and Wildlife Service (USFWS), and other federal, state, and local agencies. Enhancement of the Intermountain Center for River Restoration and Rehabilitation would accomplish these goals. We request an increase of \$600,000 to the US Department of Energy budget to expand ICRRR.

USU Contact:

Jack Schmidt

Utah State University

College of Natural Resources

5200 Old Main Hill

Logan, UT 84322-5200

ADDENDUM

Senator Robert F. Bennett Appropriation Disclosure Requirements Fiscal Year 2010

Under the new disclosure requirements announced at the beginning of the 111th Congress by the Senate and House Appropriations Committees, all Members of Congress are required to post on their websites each appropriations request they submit to the respective subcommittees. The information must include an explanation of the project, a justification for the request, and the requesting entity.

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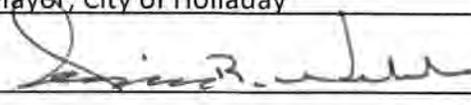
Going forward, Senator Bennett will continue to work to represent Utah's interests by ensuring Utah's priorities are adequately represented with congressionally directed spending.

Note: A signed addendum must be returned for **each appropriations request submitted** for Fiscal Year 2010.

Project Name: Holladay Community Greening Initiative

Head of the organization making request: Name: Dennis Webb

Title: Mayor, City of Holladay

Signature: 

Date: March 25, 2009

**Senator Robert F. Bennett
FY2010 Appropriations Request Form**

Date:	
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Requesting Organization:	City of Holladay, Utah	Address:	4580 S. 2300 E., Holladay, UT 84117		
Organization Point of Contact:	Randy Fitts, City Manager	Phone:			
Address:	4580 S. 2300 E., Holladay, UT 84117	Email:			
DC Representation: (If any)	Pat Jordan, Jordan & Associates, Inc.	Phone:			
Address:	2111 Wilson Blvd., Suite 600, Arlington, VA 22201	Email:			
Name of Project:	Holladay Community Greening Initiative	Total # of Projects Requested	3	Priority #:	3
Name of Grantee:	City of Holladay, Utah	Address:	4580 S. 2300 E., Holladay, UT 84117		

Suggested Appropriations Bill:	Energy & Water
Suggested Account in Bill:	Energy Efficiency and Renewable Energy (EERE)
Are you submitting this request to other offices?	Yes If yes, please list: Senator Orrin Hatch Representative Jason Chaffetz
Total Amount of Federal Funding Requested for Fiscal Year 2010:	\$60,000
Is any of this Funding Included in the President's Budget Request?	No
Anticipated Future Funding Requests (amounts and years):	None, if fully funded this year.
Local and State Funding Sources and Amounts:	EERE grants require a local cost share of 50 percent, which the City will provide from the city redevelopment funds.
Other Federal Funding Sources and Amounts:	None
If this is a Transportation Request, is it listed on the TIP or STIP?	<input type="checkbox"/> Yes <input type="checkbox"/> No NOT APPLICABLE
If this is an Energy & Water Request, please include a statutory authorization for the request:	The Energy Independence and Security Act of 2007 (P.L. 110-140) amended the Energy Policy Act of 2005 (42 USC 16232) and greatly expanded the programs of research, development, demonstration, and commercial application of technologies within EERE to increase energy efficiency and reduce energy consumption in the United States.

Project Funding History

Fiscal Year	Amount Appropriated	Appropriations Bill	Account
2009	N/A		
2008	N/A		
2007	N/A		
2006	N/A		
Federal Agency Advocate (name, office, e-mail and phone number):	David Rodgers, Acting Program Manager, Building Technologies Program, Energy Efficiency and Renewable Energy Office, Department of Energy,		
State Agency Advocate (name, office, e-mail and phone number):	Doug Hansen, Energy and Sustainability Group, Department of Environmental Quality,		

One Sentence Statement of Purpose for the Project.

Federal funds would be used to replace the City of Holladay's outdated incandescent streetlights with energy efficient light-emitting diodes (LED), resulting in less energy consumption by the City and a net cost savings in overall energy usage.
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Detailed Description the Project.

If you wish, you may submit a separate white paper with additional details.

The Energy Efficiency and Renewable Energy (EERE) Office in the Department of Energy (DoE) continues to work to develop new technologies to advance energy efficiency, and improve on existing technologies to make them even more energy efficient.
The Energy Independence and Security Act of 2007 (P.L. 110-140) amended the Energy Policy Act of 2005 (42 USC 16232) and greatly expanded the programs of research, development, demonstration, and commercial application of technologies within EERE to increase

energy efficiency and reduce energy consumption in the United States.

When incorporated in 2000, the City of Holladay inherited streets, street lights, and related infrastructure from Salt Lake County. That infrastructure included the “cottonwood loop” street light system. This system was designed as a series, constant amperage (6.6 amps), cumulative voltage (23 volts/fixture) system. The system is shared between Holladay (181 lights) and Murray City (45 lights). Because system is wired in series, lights cannot be individually replaced piecemeal. The existing system is becoming increasingly costly to operate. Of even greater concern is the use of highly inefficient incandescent lights, obsolete transformers, and antiquated electrical equipment.

This project will allow the city to update the existing system to use current technology. LED lighting is proposed to enhance energy efficiency. This green project will showcase a reduced carbon footprint within the city while significantly reducing the City’s annual power costs.

Successful completion of the Holladay Community Greening Initiative project will result in reduced energy expenditures by the City, and a lower cost of operation of the City’s streetlight network. Cost savings in city expenditures could be used to provide expanded services to the residents of Holladay.

Furthermore, this project meets the goals of the Office of Energy Efficiency and Renewable Energy to save energy through implementing energy efficient policies and technologies, which benefit all Americans by reducing energy demands, which in turn reduces our Nation’s dependence on fossil fuels imported from other nations.

The City of Holladay does not anticipate future funding requests for this project, if full funding is provided in FY 2010. Annual maintenance costs (approximately \$36,000 per year) would be shared by Holladay and Murray, in cooperation with Salt Lake County, though Holladay would take on the lead role in oversight of the project.

State Exactly How the FY10 Funds would be Allocated.

The total cost of the project is \$197,100, and EERE grants require a local cost share of 50 percent. The City of Holladay is requesting \$98,550 in federal EERE funds in FY 2010, and will provide the difference from the City’s redevelopment funds.

Throughout the City of Holladay, there are 181 streetlights, all operating in series with 45 streetlights in neighboring Murray City. The following table describes the cost for both cities, in cooperation with Salt Lake County, to update and replace existing streetlights with energy efficient “cobrahead” light-emitting diodes (LED):

Description/Alternatives	Estimated Total Capital Cost	Annual Maintenance & Power
Rewire existing fixtures. Replace incandescent fixtures with cobra-heads. City maintains system, energy cost per RMP Schedule 13a.		
<i>Replace Ballasts and Wiring Configurations</i>	\$17,550.00	
<i>Replace incandescent fixtures with new LED fixtures</i>	\$50,625.00	
<i>New Rocky Mountain Power Connections</i>	\$20,250.00	
<i>Rocky Mountain Power Schedule 13 Energy Costs</i>		\$3,758.40
<i>Typical Annual Maintenance</i>		\$2,250.00
Subtotals	\$88,425.00	\$6,008.40
Engineering (20%)	\$17,685.00	
Contingency (15%)	\$13,263.75	
Total Estimated Cost	\$119,373.75	

Justification for the Use of Taxpayer Funds for the Project.

EERE programs include renewable energy and energy conservation research, development, demonstration and deployment activities, as well as federal energy assistance programs. These energy conservation activities include improving the efficiency of vehicle, building, fuel cell, and industrial technologies.

This project meets the goals of the Office of Energy Efficiency and Renewable Energy to save energy through implementing energy efficient policies and technologies, which benefit all Americans by reducing energy demands, which in turn reduces our Nation’s dependence on fossil fuels imported from other nations. Once completed, the Holladay Community Greening Initiative project will result in reduced energy expenditures by the City at a lower cost of operation of the City’s streetlight network. The savings that result from these improvements could used to offer a greater array of services to the residents of Holladay.

ADDENDUM

**Senator Robert F. Bennett Appropriation Disclosure Requirements
Fiscal Year 2010**

Under the new disclosure requirements announced at the beginning of the 111th Congress by the Senate and House Appropriations Committees, all Members of Congress are required to post on their websites each appropriations request they submit to the respective subcommittees. The information must include an explanation of the project, a justification for the request, and the requesting entity.

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Going forward, Senator Bennett will continue to work to represent Utah's interests by ensuring Utah's priorities are adequately represented with congressionally directed spending.

Note: A signed addendum must be returned for each appropriations request submitted for Fiscal Year 2010.

Project Name: HYDROLOGIC WATER STUDY OF MOAB/SPANISH VALLEY
AREA OF GRAND + SAN JUAN COUNTIES

Head of the organization making request: Name: MARK SOVENE

Title: MANAGER

Signature: Mark Sovene

Date: 3-27-09

**Senator Robert F. Bennett
FY2010 Appropriations Request Form**

Date: 03/03/2009

Requesting Organization:	Grand Water & Sewer Service Agency	Address:	3025 E. Spanish Trail Road, PO Box 1046 Moab UT 84532			
Organization Point of Contact:		Phone:				
Address:		Email:				
DC Representation: (If any)		Phone:				
Address:		Email:				
Name of Project:	Hydrologic water study of Moab / Spanish Valley area of Grand and San Juan Counties.		Total # of Projects Requested	1	Priority #:	1
Name of Grantee:		Address:				

Suggested Appropriations Bill:	
Suggested Account in Bill:	
Are you submitting this request to other offices? Yes	If yes, please list: Congress Jim Matheson Senator Oren Hatch
Total Amount of Federal Funding Requested for Fiscal Year 2010:	\$1,000,000
Is any of this Funding Included in the President's Budget Request?	No
Anticipated Future Funding Requests (amounts and years):	\$1,000,000 2011
Local and State Funding Sources and Amounts:	The Study will support the development of drinking that will be paid for by local fees
Other Federal Funding Sources and Amounts:	
If this is a Transportation Request, is it listed on the TIP or STIP?	<input type="checkbox"/> Yes <input type="checkbox"/> No
If this is an Energy & Water Request, please include a statutory authorization for the request:	USGS / Army Corp of Engineers USGS / Army Corp of Engineers

Project Funding History

Fiscal Year	Amount Appropriated	Appropriations Bill	Account
2009			
2008			
2007			
2006			
Federal Agency Advocate (name, office, e-mail and phone number):	USGS / Army Corp of Engineers		
State Agency Advocate (name, office, e-mail and phone number):			

One Sentence Statement of Purpose for the Project.

Conduct a hydrologic water study of Moab / Spanish Valley area of Grand and San Juan Counties

Detailed Description the Project.

If you wish, you may submit a separate white paper with additional details.

This study is vital to the health and sustained growth of the region. The beneficiaries, Grand County, San Juan County, Moab City, The Nature

Conservancy District, and Grand Water and Sewer Service Agency represent the entire population of the area and have been pursuing funding since 2001. No new data has been obtained in nearly 20 years and the relationship between the two aquifers serving the population is unclear.

State Exactly How the FY10 Funds would be Allocated.

This project will identify the amount and quality of available water to the area.

Justification for the Use of Taxpayer Funds for the Project.

The Study will support the development of drinking that will be paid for by local fees

ADDENDUM

**Senator Robert F. Bennett Appropriation Disclosure Requirements
Fiscal Year 2010**

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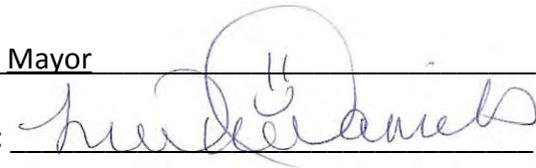
Going forward, Senator Bennett will continue to work to represent Utah's interests by ensuring Utah's priorities are adequately represented with congressionally directed spending.

Note: A signed addendum must be returned for **each appropriations request submitted** for Fiscal Year 2010.

Project Name: Independent Energy Community Renewable Power System

Head of the organization making request: Name: Michael W. Daniels

Title: Mayor

Signature:  Michael W. Daniels

Date: April 1, 2009

**Senator Robert F. Bennett
FY2010 Appropriations Request Form**

Date:	March 6, 2009
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Requesting Organization:	Pleasant Grove City	Address:	70 South 100 East, Pleasant Grove, UT 84062-2702		
Organization Point of Contact:	Frank Mills	Phone:			
Address:	70 South 100 East, Pleasant Grove, UT 84062		Email:		
DC Representation: (If any)	Summit Ventures International, LLC	Phone:			
Address:	7700 Leesburg Pike, Suite 201, Falls Church, VA 22043		Email:		
Name of Project:	Independent Energy Community Renewable Power System		Total # of Projects Requested	4	Priority #: 1
Name of Grantee:	Pleasant Grove City	Address:	70 South 100 East, Pleasant Grove, UT 84062-2702		

Suggested Appropriations Bill:	Energy and Water Development
Suggested Account in Bill:	Energy Supply and Conservation
Are you submitting this request to other offices?	None If yes, please list:
Total Amount of Federal Funding Requested for Fiscal Year 2010:	\$1,500,000
Is any of this Funding Included in the President's Budget Request?	No
Anticipated Future Funding Requests (amounts and years):	None
Local and State Funding Sources and Amounts:	None
Other Federal Funding Sources and Amounts:	None
If this is a Transportation Request, is it listed on the TIP or STIP?	<input type="checkbox"/> Yes <input type="checkbox"/> No
If this is an Energy & Water Request, please include a statutory authorization for the request:	EPACT 2005 and ESIA 2007

Project Funding History

Fiscal Year	Amount Appropriated	Appropriations Bill	Account
2009	n/a	n/a	n/a
2008	n/a	n/a	n/a
2007	n/a	n/a	n/a
2006	n/a	n/a	n/a
Federal Agency Advocate (name, office, e-mail and phone number):	Summit Ventures International, LLC		
State Agency Advocate (name, office, e-mail and phone number):	Dianne R. Nielson, Ph.D., Energy Advisor, Governor's Energy Policy		

One Sentence Statement of Purpose for the Project.

This project will create an integrated community based power system utilizing existing water systems to advance the utilization of renewable generation, storage, and distribution of electricity in an independent energy community model.

Detailed Description the Project.

If you wish, you may submit a separate white paper with additional details.

See Attachment

State Exactly How the FY10 Funds would be Allocated.

Public and private partnerships with local contractors as well as cooperation with DOE program offices and labs.
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Justification for the Use of Taxpayer Funds for the Project.

This activity capitalizes on the public policy of integrating renewal energy systems particularly on a community level as outlined in the EPACT 2005 & ESIA 2007.

ADDENDUM

Senator Robert F. Bennett Appropriation Disclosure Requirements Fiscal Year 2010

Under the new disclosure requirements announced at the beginning of the 111th Congress by the Senate and House Appropriations Committees, all Members of Congress are required to post on their websites each appropriations request they submit to the respective subcommittees. The information must include an explanation of the project, a justification for the request, and the requesting entity.

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Going forward, Senator Bennett will continue to work to represent Utah's interests by ensuring Utah's priorities are adequately represented with congressionally directed spending.

Note: A signed addendum must be returned for **each appropriations request submitted** for Fiscal Year 2010.

Project Name: In-situ Vapor Extraction (IVE) demonstration project

Head of the organization making request: Name: J. Kevin Shurtleff

Title: CEO

Signature: 

Date: April 1, 2009

**Senator Robert F. Bennett
FY2010 Appropriations Request Form**

Date: March 5, 2009

Requesting Organization:	Mountain West Energy	Address:	573 East 950 North, Orem, UT 84097		
Organization Point of Contact:	Kevin Shurtleff		Phone:		
Address:	Same		Email:		
DC Representation:	(If any)	Tim Stewart	Phone:		
Address:	122 C Street NW Suite 500 Washington DC 20001		Email:		
Name of Project:	In-situ Vapor Extraction (IVE) demonstration project		Total # of Projects Requested	1	Priority #: 1
Name of Grantee:	Mountain West Energy	Address:	Same as above		

Suggested Appropriations Bill:	Energy and Water Appropriations
Suggested Account in Bill:	Fossil Energy/Clean Coal Technologies
Are you submitting this request to other offices?	If yes, please list: Senator Hatch
Total Amount of Federal Funding Requested for Fiscal Year 2010:	\$2.5 million. Under the existing Cooperative Research and Development Agreement, RMOTC would cover 30% of the cost, but MWE is seeking a pass through grant for the full amount to fund the entire Phase II project.
Is any of this Funding Included in the President's Budget Request?	No – however significant funding was included as part of P.L 111-5
Anticipated Future Funding Requests (amounts and years):	None
Local and State Funding Sources and Amounts:	N/A
Other Federal Funding Sources and Amounts:	N/A
If this is a Transportation Request, is it listed on the TIP or STIP?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If this is an Energy & Water Request, please include a statutory authorization for the request:	P.L. 111-5 Title IV Fossil Energy

Project Funding History

Fiscal Year	Amount Appropriated	Appropriations Bill	Account
2009	None		
2008	None		
2007	None		
2006	None		
Federal Agency Advocate (name, office, e-mail and phone number):	Rocky Mountain Oil Test Center Casper WY Name - TBD		
State Agency Advocate (name, office, e-mail and phone number):	N/A		

One Sentence Statement of Purpose for the Project.

Department of Energy In-situ Vapor Extraction Demonstration program

Detailed Description the Project.

If you wish, you may submit a separate white paper with additional details.

In-situ Vapor Extraction (IVE) technology is the injection of hot natural gas into oil reservoirs in order to vaporize the oil trapped within the pores so that it can be produced. This revolutionary approach has the potential to recover an additional 30-40% of the original oil in place for conventional wells. For heavy oil reservoirs where in-situ upgrading occurs, IVE has the potential to recover 65% or more of this difficult oil. IVE is a new method of stimulating oil production and promises to dramatically improve production from depleted fields that have lost the drive mechanism to bring oil to the surface.

In August 2008, MWE completed a Phase I project with the Rocky Mountain Oil Test Center (RMOTC) to test part of its technology at

the Naval Petroleum Reserve #3. Phase I involved injection of unheated natural gas into the Upper and Lower Shannon formations. The Shannon is an ideal formation to test IVE, since most (95%) of its original oil is still in place. This formation lost its oil production drive mechanism not long after it was first produced. The test program successfully determined the size of the gas bubble formed in the Shannon formation, measured the increased oil production resulting from gas injection, and demonstrated MWE's proprietary well set up.

MWE desires to return to the Shannon formation at NPR #3 site to conduct Phase II of the project with RMOTC by injecting hot natural gas into the Shannon formation and measuring the resulting gas and oil production in nearby wells as the gas is returned to the surface, re-heated, and re-circulated through the oil reservoir. The test would last for eighteen months and would prove out the IVE technology by producing vaporized oil from the formation. In the process of conducting this test, MWE would gain valuable understanding of the behavior of the hot gas as it penetrates the oil reservoir and migrates to the production well. The ability to efficiently sweep the oil through the Shannon formation in order to capture as much oil as possible would be demonstrated.

Hot gas injection is more expensive than Phase I, since it requires a larger compressor, a process heater, and a condenser. A large portion of the budget is for natural gas inject as well as burn for process heat. The natural gas will be purchased from nearby fields and transported to the site using existing gas transmission lines. Most of the re-circulated gas will be recovered and returned to RMOTC at the conclusion of the project.

MWE expects to increase production from adjacent wells by ten fold and to produce over 6,000 barrels of oil from nearest, dedicated production well.

State Exactly How the FY10 Funds would be Allocated.

Direct Materials	
\$75,000 for Parts, fittings, gaskets, data acquisition	
Natural Gas	
\$975,000 for heating gas and transport gas	
Equipment	
\$675,000 for compressor, heater, condenser, pipe	
Direct Labor	
\$225,000	
G & A	
\$245,000	
RMOTC field services	
\$305,000	
Total	\$2,500,000

Justification for the Use of Taxpayer Funds for the Project.

This research will dramatically increase the production and life of existing oil fields within the BLM portfolio. By extending the life of these fields, taxpayers will receive a return on investment through increased federal royalties and greater environmental benefits through reduced greenhouse gas emissions.