

TEXAS environmental improvement
ENVIRONMENTAL
RESEARCH through research and science
CONSORTIUM

RESOLUTION 2.36

Whereas Neil Strassman serves as Chief of Staff for Tarrant County Judge B. Glen Whitley; and

Whereas Mr. Strassman has experience writing about the environment as a reporter for the Fort Worth Star Telegram in Texas and the Long Beach Press-Telegram in California; and

Whereas Mr. Strassman could serve as a liaison for Judge Whitley; and

Whereas the TERC Board of Directors wishes to add an additional viewpoint to the TERC Advisory Council.

Now, Therefore, Be it resolved that the Board of Directors of the Texas Environmental Research Consortium hereby appoints Mr. Strassman to the TERC Advisory Council.

Adopted and approved this 6th day of March 2008.



Kelly Frels, Chairman

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RESOLUTION 2.37

Whereas the Texas Environmental Research Consortium (TERC) is responsible for implementing the New Technology Research and Development (NTRD) Program under contract with the Texas Commission on Environmental Quality (TCEQ); and

Whereas the Houston Advanced Research Center has issued Request for Grant Assistance 12 to solicit technology projects in accordance with previous authorizations by TERC's Board of Directors; and

Whereas well conceived and cost-effective technology projects have been received that would contribute to TERC's achievement of the legislative goals of the NTRD Program; and

Whereas these projects have been evaluated and recommended for funding by TERC's Environmental Technology Advisory Council; and

Whereas the TCEQ has consented to funding of these, with conditions; and

Whereas TERC's Executive Director and the Houston Advanced Research Center concur with the TCEQ's assessment;

Now, Therefore, Be It Resolved that the TERC Board hereby provides final approval for TERC funding of the Technology projects outlined below, conditional upon resolution of the issues identified by the TCEQ:

• Oshkosh Truck	Hybrid Refuse Truck	\$301,576
• Eaton Corporation	Hydraulic Hybrid Shuttle Bus	\$499,974
• WVU/ISE Corporation	Optimized Diesel Electric Bus	\$407,692
• WVU/ITEC	Hybrid Vocational Trucks	\$482,347

Adopted and Approved this 6th day of March, 2008.



Kelly Frels, Chairman

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RESOLUTION 2.39

Whereas the Texas Environmental Research Consortium (TERC) is implementing the New Technology Research and Development (NTRD) program to facilitate the development and verification of new technologies to maximize the reduction of Oxides of Nitrogen from diesel fueled vehicles and equipment; and

Whereas a significant number of diesel fueled vehicles operate in the Houston-Galveston and Dallas-Fort Worth areas contributing to the NO_x emissions problem of the regions; and

Whereas a considerable number of these diesel fueled vehicles operate in or around the port of Houston and several large airports in the Houston-Galveston and Dallas-Fort Worth areas; and

Whereas the average age of these diesel fueled vehicles or their non-road engine certification result in disproportionately high NO_x emissions compared to the general population of heavy duty on road diesel vehicles; and

Whereas TERC's staff and the Houston Advanced Research Center have conducted the initial *assessment* required to address the emissions from this class of diesel fueled vehicles.

Now, Therefore, Be it resolved that the Board of Directors of the Texas Environmental Research Consortium hereby authorizes the Houston Advanced Research Center to develop, publish and issue a Request for Grant Assistance for the purpose of receiving proposals from interested parties to develop and/or verify technologies designed to reduce NO_x emissions from *diesel fueled vehicles operating in or associated with marine, air, and inland ports in the Houston-Galveston and Dallas-Fort Worth areas.*

Be it Further Resolved that TERC's Executive Director and the Houston Advanced Research Center also are authorized to budget and expend up to \$2.0 million of NTRD program's FY 2008 budget to support this project. Adopted and

Approved this 6th day of March, 2008.



Kelly Frels, Chairman

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RESOLUTION 2.40

Whereas the Texas Environmental Research Consortium (TERC) is implementing the New Technology Research and Development (NTRD) program to facilitate the development and verification of new technologies to maximize the reduction of Oxides of Nitrogen from diesel fueled vehicles and equipment; and

Whereas a several proposals were received under RFGA-13 proposing to develop hydrogen enriched diesel combustion engines; and

Whereas a the Environmental Technology Advisory Council (ETAC) in its deliberations acknowledges that the concept of hydrogen enriched diesel combustion may hold promise of emissions and fuel consumption reductions; and

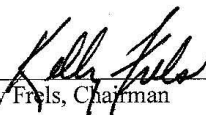
Whereas none of the hydrogen enriched diesel combustion proposals received under RFGA-13 satisfactorily support their claims with scientific and engineering fundamentals; and

Whereas the ETAC recommends a preliminary evaluation be performed of the concept of hydrogen enriched diesel combustion.

Now, Therefore, Be it resolved that the Board of Directors of the Texas Environmental Research Consortium hereby authorizes the Houston Advanced Research Center to develop, publish and issue a Request for Grant Assistance for the purpose of receiving proposals from interested parties to *perform a hydrogen enriched diesel combustion concept evaluation and define the operational envelope of a hydrogen generator that would enable such a concept.*

Be it Further Resolved that TERC's Executive Director and the Houston Advanced Research Center also are authorized to budget and expend up to \$250,000 of NTRD program's FY 2008 budget to support this project.

Adopted and Approved this 6th day of March, 2008.



Kelly Frels, Chairman

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RESOLUTION 2.41

Whereas the Texas Environmental Research Consortium is committed to implementing an air quality research program that will make significant contributions to the attainment of clean air standards in the Houston-Galveston and Dallas-Fort Worth regions; and

Whereas TERC has qualified an excellent set of organizations to provide research and related services in pursuit of the approved Strategic Research Plan; and

Whereas these organizations have been responsive to the Strategic Research Plan by submitting proposals to answer significant outstanding questions related to air quality science in East Texas and to compliance with the Clean Air Act; and

Whereas the Science Advisory Committee of TERC has reviewed the proposed research projects with input from TCEQ; and

Whereas the Science Advisory Committee has made recommendations regarding which projects should be awarded contracts and the projected costs of these contracts; and

Whereas Houston Advanced Research Center and the TERC Executive Director have reviewed these recommendations and find them reasonable.

Now therefore be it resolved that the Board of Directors of the Texas Environmental Research Consortium hereby authorizes the Houston Advanced Research Center to engage persons and entities to complete the 23 new studies listed in the attached document for a combined estimated budget of \$4,101,800.

Adopted and approved this 6th day of March, 2008.



Kelly Frels, Chairman

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RESOLUTION 2.43

Whereas the Texas Environmental Research Consortium (TERC) established the Science Advisory Committee in 2002, that is composed of air quality experts from around the country;

Whereas the Science Advisory Committee is relied on by TERC and its Research Management Organization to identify and prioritize air quality research projects for funding; and

Whereas it is beneficial to fill the vacancies on the Science Advisory Committee with air quality experts who have the time and commitment to assist TERC in this area; and

Whereas Dr. Luisa Molina has outstanding experience and knowledge of air quality science and has expressed her willingness to serve in an advisory capacity to TERC; and

Whereas the following SAC members: Dr. Ramon Alvarez, Dr. Greg Carmichael, Dr. Bill Carter, Dr. Ron Parry, Dr. Joe Pinto, Dr. Melanie Sattler, and Joe Scire, have demonstrated their commitment and capabilities through service on the SAC, but have reached the four year term of service that requires action by the TERC Board to renew their appointments;

Now, Therefore, Be It Resolved that the Board of Directors of the Texas Environmental Research Consortium hereby appoints the above named persons to two year terms on the Science Advisory Committee, effective immediately.

Adopted and Approved this 6th day of March, 2008.



Kelly Fields, Chairman