

TEXAS environmental improvement
ENVIRONMENTAL
RESEARCH through research and science
CONSORTIUM

RESOLUTION 2.69

Redistribution of Air Quality Research Funds to Support the SHARP Field Study

Whereas the Texas Environmental Research Consortium (TERC) has made significant discoveries pertaining to the role of the radical precursors, formaldehyde and nitrous acid, in ozone formation as a result of TERC-funded projects during the Second Texas Air Quality Study (TexAQS II) ; and

Whereas TERC has already committed over \$2.5 million to a follow-up study to TexAQS II, known as the Study of Houston Atmospheric Radical Precursors (SHARP), that will further investigate the sources and atmospheric chemistry of formaldehyde and nitrous acid; and

Whereas the anticipated results of the SHARP study will be of major significance to the current and future State Implementation Plans for the Houston-Galveston-Brazoria ozone non-attainment area; and

Whereas no access has been gained to industrial facilities for the conduct of TERC projects H92 and H115 concerning the measurement of wastewater emissions and the inter-comparison of the SOF and DIAL remote sensing techniques, respectively; and

Whereas the necessary cancellation of the remainder of Project H92 and of Project H115 will make available approximately \$426,000 that must be spent by August 31, 2009; and

Whereas the Houston Advanced Research Center (HARC), in cooperation with the TERC research teams participating in SHARP, has identified additional measurements and modeling that would enhance the value of the SHARP campaign; and

Whereas the TERC Science Advisory Committee (SAC) has been asked to review the additional measurements and modeling proposed by HARC for their scientific validity and rigor;

Now therefore be it resolved that the Board of Directors of TERC authorize HARC to re-distribute \$426,000 of TERC air quality research funds among existing Board-approved projects of relevance to the SHARP campaign, including but not necessarily limited to H100 (SHARP) and H113 (Houston Urban Air Composition Characterization Using a Mobile Laboratory and Measurements of HONO at Moody Tower), subject to the concurrence of the SAC.

Adopted and approved this 12th day of March, 2009.

Kelly Frels, Chairman

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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 Application 17 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, determined to be eligible by TCEQ, and recommended for funding by TERC’s Environmental Technology Advisory Council (ETAC), with conditions; and

Whereas TERC’s Executive Director and the Houston Advanced Research Center concur with the ETAC’s assessment;

Now, Therefore, Be It Resolved that the TERC Board Executive Committee hereby provides approval for TERC funding of up to \$2,895,350 for the NTRD projects outlined below at amounts not to exceed those listed, conditional upon final approval by TCEQ:

Company	Project Topic	Maximum Approval \$
Caterpillar	Caterpillar 3406 Emissions Upgrade Group	\$740,647
EMD	Common Rail Fuel System	\$750,000
FEV	Retrofit Solid SCR System for NOx Reduction	\$750,000
Eaton	Reformer, LNT and SCR based Aftertreatment System	\$654,703

Adopted and Approved this 12th day of March, 2009.

Kelly Frels, Chairman

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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 and equipment operate in the Houston-Galveston and Dallas-Fort Worth areas contributing to the NOx emissions problem of the regions; and

Whereas the Houston Advanced Research Center and the Environmental Technology Advisory Committee have conducted an *assessment* of technology needs and developed a strategic plan to address these needs; and

Whereas a need has been identified to issue a request for grant applications (RFGA) for additional work in the area of Verification and Testing of NOx Reduction Technologies and Development of Cost Effective Enabling Technologies to Reduced NOx Emissions from Diesel Powered Equipment and Vehicles; and

Whereas, the subject of the proposed request for grant applications addresses significant strategic needs;

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 Applications for the purpose of receiving proposals from interested parties for the Verification and Testing of NOx Reduction Technologies and Development of Cost Effective Enabling Technologies to Reduced NOx Emissions from Diesel Powered Equipment and Vehicles.

Be it Further Resolved that TERC's Executive Director and the Houston Advanced Research Center also are authorized to budget and expend up to \$5 million of the NTRD program's FY 2009 budget to support projects under this RFGA.

Adopted and approved this 12th day of March 2009.

Kelly Frels, Chairman

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RESOLUTION 2.72

Whereas Richard Wilson, Senior Vice President of National Environmental Strategies, Inc. has served on the TERC Environmental Technology Advisory Council from May 2006 until January 2009; and

Whereas Richard Wilson provided outstanding service on the TERC Environmental Technology Advisory Council; and

Whereas the Texas Environmental Research Consortium has benefited greatly from Richard Wilson's service; and

Whereas the Environmental Technology Advisory Council has been and continues to be an integral part of the Texas Environmental Research Consortium; and

Whereas Richard Wilson has resigned on Jan 07, 2009; and

Whereas the TERC Board of Directors wishes to express its thanks to Richard Wilson for his outstanding service.

Now, Therefore, Be it resolved that the Board of Directors of the Texas Environmental Research Consortium hereby approves this **Resolution of Appreciation** to Richard Wilson.

Adopted and approved this 12th day of March 2009.

Kelly Frels, Chairman

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RESOLUTION 2.73

Whereas at its December 2008 meeting, based on Amended and Restated By-Laws of the Texas Environmental Research Consortium (TERC), The Honorable James Yarbrough was appointed the Board for an additional 3-year term; and

Whereas The Honorable James Yarbrough has stated that because of previous commitments he will be unable to devote the needed time and attention to TERC; and

Whereas The Honorable James Yarbrough has recommended that Mr. Ronnie Schultz be elected to the TERC Board of Directors; and

Whereas Mr. Ronnie Schultz has agreed to serve on the TERC Board of Directors.

Now, Therefore, Be it resolved that the Board of Directors of the Texas Environmental Research Consortium hereby appoints Mr. Ronnie Schultz to a 3-year term to its Board of Directors.

Adopted and approved this 12th day of March 2009.

Kelly Frels, Chairman