

TEXAS environmental improvement
ENVIRONMENTAL
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CONSORTIUM

RESOLUTION 2.15

Whereas the current Bylaws of the Texas Environmental Research Consortium (TERC) authorizes the appointment of and delegation of authority to an Executive Committee to act on behalf of TERC between regular meetings of the Board of Directors; and

Whereas the Board of Directors wish to establish the Executive Committee as authorized in the Bylaws to assure timely consideration of various issues by the Board of Directors; and

Whereas it is prudent for the Executive Committee to be established in a timely manner; and

Whereas the Board of Directors also wishes to delegate certain restricted powers to the Executive Committee to act on behalf of TERC between regular meetings of the Board of Directors.

Now, Therefore, Be It Resolved that the Board of Directors of the Texas Environmental Research Consortium hereby establishes an Executive Committee which is to consist of Board Members that are selected by the Chair of the Board of Directors following its July 9, 2007 meeting; and

Be It Therefore Further Resolved that the Executive Committee shall fully comply with TERC's Bylaws, relevant state and federal laws, TERC's Annual Operating Budget, the TCEQ-TERC contracts, the Strategic Plans for the Air Quality Research and the New Technology Research and Development Programs and Requests for Great Assistance (RFGA) regarding the NTRD Program.

Be It Therefore Further Resolved that the Executive Committee is delegated authority to take the following actions:

- Approve specific air quality research projects that are consistent with the Strategic Plan and budget for this program;
- Approve specific technology projects that are consistent with the Strategic Plan for this program and previously approved RFGAs; and
- Specific expenditures up to \$50,000.

Be It Finally Resolved that the Executive Committee shall assume its duties beginning July 1, 2007.

Adopted and Approved this 14th day of June 2007.

Kelly Frels, Chairman

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RESOLUTION 2.19

Whereas the Texas Commission on Environmental Quality has been given authority to name two members of the Board of Directors of the Texas Environmental Research Consortium (TERC) as a result of Senate Bill 12; and

Whereas the persons named by TCEQ are to have appropriate technical backgrounds to oversee TERC's Air Quality Research and New Technology Research and Development programs; and

Whereas the TCEQ has nominated Ravi Singhanian; and

Whereas Mr. Singhanian has a distinguished record of accomplishments related to air quality issues and has demonstrated a strong interest in TERC matters.

Now, Therefore, Be It Resolved that the Ravi Singhanian is hereby elected to serve as a member of the Board of Directors of the Texas Environmental Research Consortium.

Adopted and Approved this 9th day of July 2007.

Kelly Frels, Chairman

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RESOLUTION 2.20

Whereas the Board of Directors of the Texas Environmental Research Consortium (TERC) adopted bylaws to guide the organization's decision making and operations shortly after its creation in 2002; and

Whereas the Board of Directors have the authority and the discretion to revise the bylaws as the need arises; and

Whereas legislation recently adopted by the Texas Legislature and operational challenges since TERC's creation have necessitated the need for changes to the bylaws.

Now, Therefore, Be It Resolved that the Board of Directors of the Texas Environmental Research Consortium hereby approves revisions to the organization's bylaws regarding the size, composition and expertise of its Board of Directors as well as the process by which Board meetings shall be conducted to comply with the Texas Open Meetings Act.

Adopted and Approved this 9th day of July 2007.

Kelly Frels, Chairman

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RESOLUTION 2.21

Whereas the Texas Environmental Research Consortium (TERC) has responsibility for administering the New Technology Research and Development (NTRD) Program to facilitate the development and verification of technologies to maximize NOx reductions from diesel fueled vehicles and equipment; and

Whereas TERC has solicited technology proposals in response to Request for Grant Assistance 09 (RFGA-09) specifically to support emissions testing for the approval of an alternative diesel formulation for Texas Low Emissions Diesel fuel (TxLED), including such technologies as diesel fuel blends containing biodiesel and/or other diesel fuel additives; and

Whereas the Environmental Technology Advisory Committee reviewed the proposals received under RFGA-09 and determined that those of the National Biodiesel Board and Viscon California met the requirements and intent of RFGA-09; and

Whereas staff of the TCEQ reviewed the proposals recommended by the ETAC and found them to be eligible to receive TERP funds;

Now, Therefore, Be It Resolved that the Board of Directors of the Texas Environmental Research Consortium hereby authorizes the Houston Advanced Research Center to contract with the National Biodiesel Board for up to \$125,000 and with Viscon California for up to \$250,000 to perform projects that are responsive to RFGA-09.

Adopted and Approved this 14th day of June 2007.

Kelly Frels, Chairman

Proposed grant Recipient: The National Biodiesel Board
Grant Amount: \$122,775
Cost share: \$52,710
Total project Budget: \$175,485

Abstract

The National Biodiesel Board (NBB) proposes to conduct emissions certification testing to qualify for an Alternative Diesel Formulation by comparing a TCEQ reference fuel to a blend of biodiesel and the same TCEQ reference fuel. The biodiesel used will meet ASTM D6751 specifications and the reference fuel will be a Texas specified low emission diesel reference fuel. Successful completion of these tests demonstrating neutral or better NO_x emissions when compared with a reference TxLED fuel will qualify, as an alternative diesel formulation, any ASTM D6751 biodiesel blended (up to the tested volumetric blend) with any TxLED compliant fuel. The test plan will adhere to the appropriate test procedures listed in the requirements specified in Title 30, Texas Administrative Code, Chapter 114, Subchapter H for the approval of an alternative diesel formulation for TxLED.

Proposed grant Recipient: Viscon California LLC
Grant Amount: \$250,000
Cost share: \$54,581
Total project Budget: \$304,581

Abstract

Viscon California's proposes to enable wide-spread utilization of biodiesel and to further enhance the TxLED program.

- The primary project objective is to provide TCEQ with evidence necessary to evaluate the effects of 20% and 99% biodiesel blends, when treated with Viscon, as a viable TxLED fuel formulation to achieve NO_x compliance.
- Viscon California will use the awarded funds to confirm previous testing using the Viscon fuel additive.
- Testing will be conducted in the independent laboratory of Olson–Ecologic, Engine Testing Laboratories, LLC (O-E). O-E is located in Fullerton California. O-E is an ISO 9001:2000 registered facility, has conducted several previous projects for TCEQ and is recognized by both EPA and the California Air Resources Board (CARB).
- Emissions testing will be conducted following the guidelines set forth in the Request for Grant Applications, Solicitation No. RFGA-09.

Viscon is manufactured by the applicant of this proposal, Viscon California. Viscon is a high-molecular weight, pure hydrocarbon polymer. Viscon has shown in previous diesel emission tests to significantly reduce both engine exhaust NO_x and PM when blended with diesel fuel. Test results submitted to the California Resources Board (CARB) under CARB test protocol have shown a 25.4% reduction in NO_x, a 48.4% reduction in PM, and a 38% reduction in CO using a heavy-duty commercial diesel engine.

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RESOLUTION 2.22

Whereas The Honorable Robert Eckels has served on the Board of Directors of the Texas Environmental Research Consortium (TERC) from its inception in 2002; and

Whereas Judge Eckels was instrumental in the formation and direction of TERC in its formative years; and

Whereas air quality in the Houston-Galveston-Brazoria area was and still is a high priority for Judge Eckels and Harris County; and

Whereas Judge Eckels worked tirelessly for improvement of both the economy and the air quality of the Houston-Galveston-Brazoria region; and

Whereas the TERC Board of Directors gratefully acknowledge Judge Eckels' outstanding contributions to this organization; and

Whereas Judge Eckels has now entered into a new phase of his distinguished career.

Now, Therefore, Be It Resolved that the Board of Directors of the Texas Environmental Research Consortium accepts Judge Eckels' resignation effective September 13, 2007.

Adopted and Approved this 9th day of July 2007.

Kelly Frels, Chairman