



FINANCE COMMITTEE AGENDA

Committee Members:

The Honorable Ken Waters, Chairman
The Honorable M. Cindy Wilson
The Honorable Ray Graham

Friday, February 16, 2018 - 12:00 p.m.

Historic Courthouse

Administrator's Conference Room - Second Floor

Chairman Tommy Dunn, Presiding

- | | |
|--|---------------------------|
| 1. Call to Order | Chairman Dunn |
| 2. Invocation and Pledge of Allegiance | Honorable M. Cindy Wilson |
| 3. Capital | |
| a. Airport Aircraft Rescue and Fire Fighting (ARFF) Truck | Mr. Steve Newton |
| b. Town of Pelzer Vehicle Request | Mr. Joseph Stone |
| 4. Grants | |
| a. FY 2017 State Homeland Security Grant | Lt. Rob Gebing |
| b. Tri-County Technical College Waste Tire Research Grant | Mr. Steve Newton |
| 5. Mid-Year Financial Update | Ms. Rita Davis |
| 6. Transfer | Ms. Rita Davis |
| 7. Executive Session-Contractual Matters regarding Building Purchase | Mr. Rusty Burns |

Tommy Dunn
Chairman, District 5

Craig Woolen
Council District 1

Tom Allen
Council District 4

Cindy Wilson
Council District 7

Ray Graham
V. Chairman, District 3

Gracie Floyd
Council District 2

Ken Waters
Council District 6

Lacey Croegaert
Clerk to Council

ANDERSON COUNTY
SOUTH CAROLINA

Rusty Burns | County Administrator
rburns@andersoncountysc.org



FINANCE COMMITTEE AGENDA

Committee Members:

The Honorable Ken Waters, Chairman
The Honorable M. Cindy Wilson
The Honorable Ray Graham

SUMMARY OF FC AGENDA ITEMS

ANDERSON COUNTY FINANCE COMMITTEE MEETING

February 16, 2018 12:00 p.m.

Historic Courthouse – Administrator’s Conference Room - Second Floor

Chairman Dunn – Presiding

3. Capital

3a. Airport Aircraft Rescue and Fire Fighting (ARFF) Truck

- Requesting permission to purchase an Airport Aircraft Rescue and Fire Fighting Truck (ARFF). This is due to the fact that out of the last four inspections by the FAA, we were in jeopardy of not passing three of these.
- Approximate cost is \$350,000.
- The FAA will cover 90% (\$315,000), the state 5% (\$17,500), and the County match would be 5% (\$17,500).
- Previously the FAA would not cover these vehicles. However, the Airport Manager, Justin Julian kept discussing this with him & he finally got permission for it to be covered.
- The General Fund would need to loan the Airport Fund the funds until the summer of 2019 when we would be reimbursed by the FAA & State Aeronautics.
- The vehicle previously purchased for this would go to Building and Grounds who have a need for it.
- If we don't purchase this vehicle, we would have to buy a new ARFF skid apparatus for \$35,000. We can get a whole new truck that is designed for fighting aircraft fires. It could also put out grass & structure fires if needed.

3b. Town of Pelzer Vehicle Request

- The Town of Pelzer has asked Sheriff McBride for an administrative vehicle to be used by their mayor and town representatives on municipal business.
- Mr. Stone has identified a 2004 Dodge Intrepid that has 167,912 miles on it that he is recommending be transferred to the Town of Pelzer.

4a. FY 2017 State Homeland Security Grant

- The Bomb Team is requesting to purchase the following items under the State Homeland Security Grant:
 1. 1 portable x-ray generator for \$5,000 to enhance the capability of the NeXray system they have.

Tommy Dunn
Chairman, District 5

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2. 2 tactical/fragmentation style vests for \$10,000 (\$5,000 each). These are required by the National Bomb Squad Commanders Advisory Board. This is a new requirement.
3. 1 lightweight EOD search suit for \$14,000. This is a tactical search suit used to respond to WMD events and support SWAT response in actual or suspected WMD situations. This is a replacement suit for an item that is over 18 years old.
4. \$3,000 for 4 night vision helmet mounts and \$5,000 for exercise support for the annual regional exercise.
5. No County match.

4b. Tri-County Technical College Waste Tire Research Grant

- Tri-County Technical College has requested that Anderson County serve as applicant and administrator for a DHEC recycled tire and plastic research education grant and development service.
- The program will advance scrap tire and plastic technologies through education and technology transfer.
- A memorandum of understanding will be developed that will outline each parties roles and responsibilities related to the grant-funded project.
- Anderson County will not be providing any funding under this grant. Only assistance in grant application and administration.

5. Mid-Year Financial Update

- The original FY 18 projected a usage of General Fund balance of \$5,446,745. The supplemental budget ordinance that has been proposed is projected to use an additional \$2,711,320 of General Fund balance for a total of \$8,158,065.
- However, the projection currently reflects that we will use less than half of that amount or approximately \$2.2 million.

6. Transfer

- PAWS requesting permission to transfer \$3,500 to uniforms - \$1,500 from telephone and \$2,000 from water & sewer.

7. Executive Session – Contractual Matters regarding Building Purchase

Tommy Dunn
Chairman, District 5

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Council District 1

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ANDERSON COUNTY
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rburns@andersoncountysc.org

Reasons to have a purpose built ARFF fire truck vs. getting a new skid unit:

1. With a Purpose Built fire truck you get multiple agents on the truck and more capacity of the agents as well as more use out of the truck for different types of emergencies.
2. You get 500 lbs of dry chemical agent, 300 gallons of water and 40 gallons of foam in one truck.
3. The skid unit also has less quantity of water on the truck so you would have 300 gallons of water mixed with 40 gallons of foam versus just 125 gallons of foam on the truck so you have more extinguishing agent options.
4. The purpose built fire truck is pump driven which allows the truck to flow more agent out and quicker than being pressurized by a nitrogen cylinder on the skid unit.
5. Also you have different types of ways to extinguish the fire. You have a front bumper turret. With the front bumper turret you can control it from the inside of the cab of the truck without getting out which allows to get agent on the fire quicker, further, and whole lot safer for the first responder responding in the ARFF vehicle. You also have 2 types of hoses you can deploy off the apparatus to extinguish the fire. You have a slot to put 200 feet of 1.5 inch pre connect fire hose with a task force nozzle to be able to deploy to fight structural fires as well as vehicle or aircraft fires if it came down to having to deploy the hand line.
6. You also have 150' of bundled pre connect dual agent hose in the rear compartment of the truck that can be deployed for fighting also air craft fires as well as field fires and mulch fires that are on the field which we have had 2 incidents within a years' time of each other so we would be able to take care of or at least get a start on whatever type of emergency we have on the field until more agencies arrive on sight to help out with the emergency.
7. You also have compartments all around the truck to store extra foam buckets, fire hand tools and hose appliances, spare SCBA's for other responders to have on sight to be able fight fires or whatever the case may be to have an SCBA. We would be purchasing a 4 door chassis f-550 which we would also be able to store more SCBA's as well as be able to load up more manpower in the truck to have on the sight in time of an emergency.
8. The truck also comes with scene lighting to light up the scene of the emergency at night for visibility and runs off a generator that comes with the truck. The truck would also be able to cover the street of the airport as well as the businesses on airport road to assist with Center Rock Fire Department.
9. All of these reasons are to be able to maintain the safety of the pilots and customers of the Anderson Regional Airport that fly in here day to day. We would be very fortunate to have and own a purpose built fire truck for multiple purposes for the airport and would be able to last us for a very long time throughout the years for the Anderson Airport.

Rita Davis

From: Rusty Burns
Sent: Thursday, February 08, 2018 9:04 AM
To: Rita Davis
Subject: FW: Airport ARFF Vehicle
Attachments: Reasons to have a purpose built ARFF fire truck vs.docx



ANDERSON COUNTY
SOUTH CAROLINA

Phyllis White

Executive Assistant to the Administrator

O: 864.716.3617
C: 864.642.5541
F: 864.260.4548
pwhite@andersoncountysc.org

Historic Courthouse
101 South Main Street
Anderson, SC 29624

PO Box 8002
Anderson, SC 29622

From: A. Justin Julian
Sent: Monday, February 05, 2018 10:31 AM
To: Steve Newton <snewton@andersoncountysc.org>; Rusty Burns <rburns@andersoncountysc.org>
Subject: Airport ARFF Vehicle

Gentlemen,

I hope you've had a wonderful weekend. Concerning our Airport Aircraft Rescue and Fire Fighting (ARFF) Truck, I would like to know the direction you wish to proceed. As you are well aware, our current ARFF Truck is in a rough state. The ARFF truck has put our FAA Part 139 Inspection in jeopardy 3 out our 4 most recent inspections. These issues have ranged from the truck not starting the day before our inspection to our FAA required dry chemical agent failing to deploy during our 2016 and 2017 FAA Part 139 Inspections. In the past, it seemed the FAA *would not* fund an ARFF vehicle so I took measures to mitigate the risks to the best of our abilities. The first step was to replace the current dump

truck with a newer more reliable vehicle. This is the reasons we requested the new flatbed truck, as it was my hope the new vehicle would prove more reliable. Had I known last year that the FAA would reverse its decision, I would have moved forward with a new ARFF Truck instead.

The second issue is the ARFF skid unit which is utilized to fight an aircraft fire and holds up to 125 gallons of foam and 500 pounds of dry chemical. According to Anderson County Fire & Safety Company (who maintains our ARFF skid unit), the skid unit is so old that if any component fails they will be unable to order any replacements parts. Consequently, a new ARFF Skid Apparatus will require approximately \$35,000 and a five month lead time to create.

Upon understanding our critical need for an ARFF Truck and the FAA's stance on not funding our equipment, our FAA Inspector Mr. Warren Relaford started knocking down a few doors on our behalf in the FAA Southern Region. The results of his efforts are not only are we *now eligible* for an ARFF Truck, it carries one of the highest priority ratings and the FAA and State will fund it up to 95%. Another way to look at this is if we are looking to acquire a \$350,000 ARFF Truck, the Anderson County 5% share will be \$17,500. A new ARFF truck will require approximately eight months to a year to produce. Although we could place the order today, we would have to wait until the Summer of 2019 to receive our 95% reimbursement and ensure we did not derail any of our current or future FAA projects.

Alternatively, we could allow for the FAA and State to pay for our newly purchased flatbed truck in addition to the \$35,000 ARFF Skid Unit. This would reduce our expenses to a fraction of the price and we could continue to meet the minimum requirements to pass our FAA Part 139 Inspections. As detailed by Mr. Alex Wengerd, our FBO Technician and Professional firefighter, the merits of a purpose built ARFF truck would outweigh those concerning an ARFF skid unit which may be reviewed by the document attached and YouTube video link below.

As the Airport Manager of the Anderson Regional Airport, I believe it would serve our best interest to move forward acquiring a purpose built ARFF vehicle. The aspect I find the most appealing is that the new ARFF truck would have a bumper mounted turret that could be utilized by any member of Airport staff in the event of an emergency. The bumper turret is operated via a joystick in the cabin, allowing agent to be deployed without anyone leaving the vehicle. The 4 wheel drive truck would enable us to also put out grass fires and structure fires, both of which have occurred at the airport this past year. The ARFF Truck could also afford year round protection for the Airport, despite only being required for the 15 minutes before and after the large charter jet operation.

Finally, the FAA only requires ARFF protection whenever the sports teams fly into and out of the Anderson Regional Airport. In the event a small airplane or corporate jet (First Quality, TTI, etc.) were to crash, the response time from Center Rock Fire Department would be about 10 minutes at the earliest. With that amount of time passing the chance of passengers surviving would be nil, which make our response time during our three (3) minute drill for our annual FAA Part 139 Inspection paramount. With our current ARFF truck, the only person we have that could operate the skid unit and deploy the fire hose would be Mr. Alex Wengerd who is only serves part-time. With a new vehicle, even if Airport staff elected to wait for the first responders to arrive, our staff would at the very least have the option and ability to suppress a fire until their arrival.

Despite my recommendation, I am fully aware Anderson County has invested a substantial amount in the Anderson Regional Airport. From the Terminal Project, to the Runway Rehabilitation with the extra 50 ft. of pavement, supporting our first ever weekend airshow, and to honoring our capital requests for continued growth. I do not wish for the \$350,000 ARFF Truck to become the straw to break the camel's back, nor do I have access to the funds to move forward with the purchase. At the end of the day, this is simply an opportunity cost. Rusty asked for me to look into getting a fire truck and, against the longest of odds, we have a chance at getting one to be reimbursed up to 95%. Whichever choice you would prefer (ARFF Truck or Skid Unit) , we would need to utilize the equipment until the end of its useful life which is approximately 15 years. Approached from a different view, we will not have the opportunity to make this decision again until 2033.

I am aware this was a lengthy email, but I wanted you both to be as knowledgeable as possible. I will proceed in whichever fashion you deem is best for both Anderson County and the Anderson Regional Airport. If you have any additional questions, please let me know.

Sincerely,

Justin Julian
Airport Manager
Anderson Regional Airport

<https://youtu.be/s3XNI8FmUTU>

From: alex wengerd [mailto:crf150@bellsouth.net]
Sent: Wednesday, January 31, 2018 2:40 PM
To: A. Justin Julian <ajjulian@andersoncountysc.org>
Subject: ARFF Vehicle

Justin,
Attached is what i have came up with for the fire truck as well as buying a purpose built fire truck vs. getting a new skid unit. We NEED a purpose built! Fingers crossed! If you have any questions give me a call on my cell!

Thanks,
Alex Wengerd

From: Joseph Stone
Sent: Tuesday, February 13, 2018 7:05 AM
To: Rita Davis; Holt Hopkins; Robert Carroll
Cc: Chad McBride
Subject: Fwd: Vehicle for the Town of Pelzer

We have a vehicle maybe 2 that would fit the bill for this. I assume this will be a donation to them as has been done in the past. I believe this will require a vote by council. If you need the exact info on the vehicle let me know.

Sent from my iPhone

Begin forwarded message:

From: Chad McBride <cmcbride@andersonsheriff.com>
Date: February 12, 2018 at 8:01:41 PM EST
To: Joseph Stone <jstone@andersoncountysc.org>
Subject: Vehicle for the Town of Pelzer

Hey Sir,

The town of Pelzer has asked that we consider donating a vehicle(s) from our fleet to be used for local government use only. They are in need of a sedan style vehicle that can be used by the mayor and or town representatives. Again this would be for the Town of Pelzer use only and not for personal use.

Any sedan that is in good working order that is not equipped with police equipment should meet their needs.

Thank you ,

Chad McBride

Sent from my iPhone

Robert Carroll

From: Joseph Stone
Sent: Tuesday, February 13, 2018 2:53 PM
To: Rita Davis; Robert Carroll
Cc: Holt Hopkins; Chad McBride; Anna Marie Brock
Subject: West Pelzer Vehicle Donation
Attachments: IMG_1845.JPG

Unit 22020 Dodge Intrepid 2004 Model Year with 167,912 miles. Currently assigned as an admin/academy car spare. Attached photo. Anna Marie may need to see if we have a title on hand..

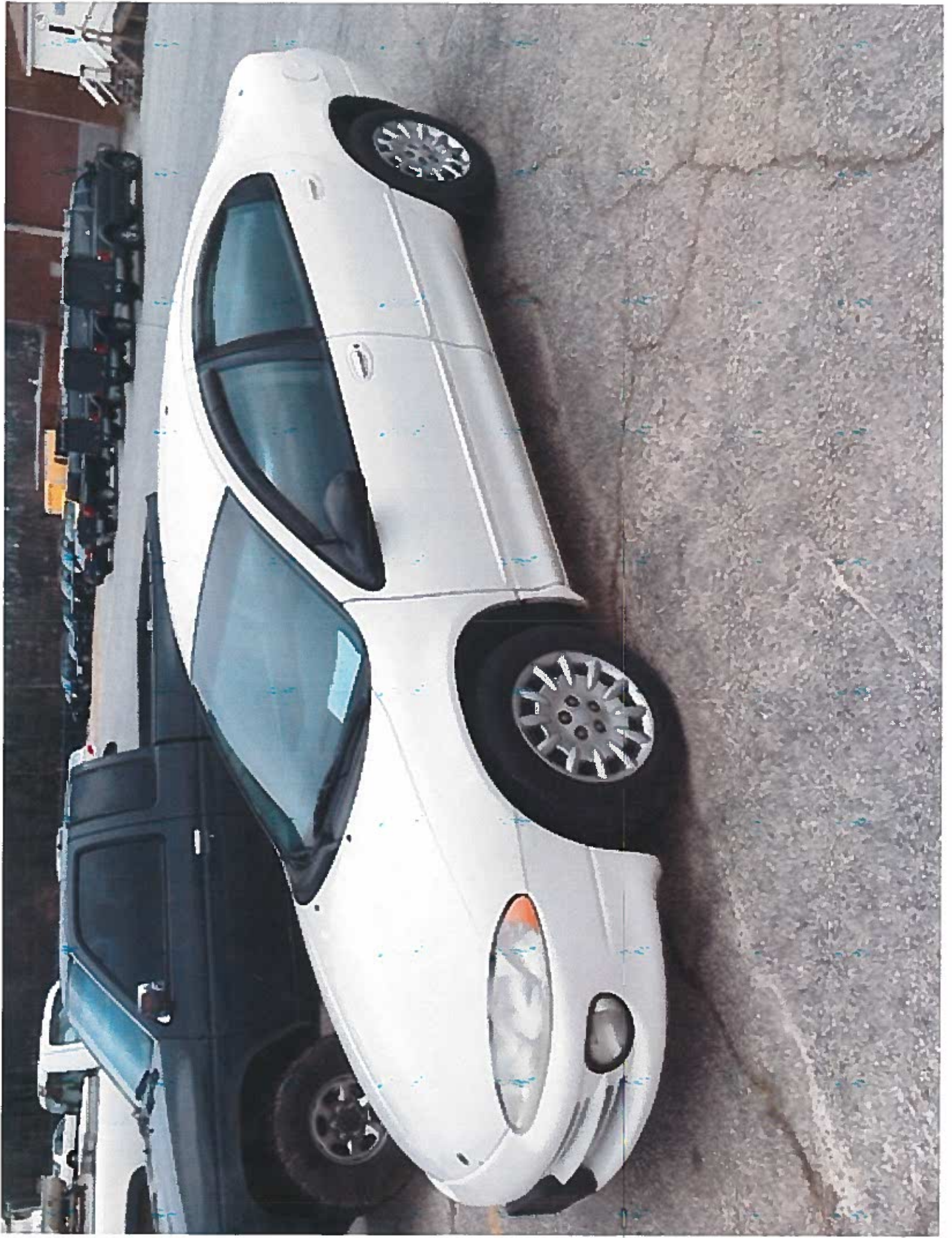


ANDERSON COUNTY
SOUTH CAROLINA

Joe Stone
Anderson County Fleet Manager

O: 864.260.6343
C: 864.617.1919
F: 864.260.4867
jstone@andersoncountysc.org

739 Michelin Boulevard
Anderson, SC 29626



ANDERSON COUNTY GRANT FISCAL IMPACT FORM

FY 2018-2023 FISCAL IMPACT	Dept 5161 - Sheriffs Office
Grant Name: FY 2017 State Homeland Security Program	Area Served: Anderson County
Grant Number: 17SHSP02	Council District: All
Grant Period: 10/01/2017 - 9/30/2018	
Grant Award: \$35,000	

Project Manager: Lt. Rob Gebing
Contact Number: (864) 260-1006

Grant Description:
 State Homeland Security Program (SHSP) supports the implementation of State Homeland Security Strategies to address the identified planning, organization, equipment, training, and exercise needs for acts of terrorism and other catastrophic events. In addition, SHSP supports the implementation of the National Preparedness Guidelines, the National Incident Management System (NIMS), and the National Response Framework (NRF).

Justification:
 The State Homeland Security Program (SHSP) is a core assistance program that provides funds to build capabilities at the State and local levels and to implement the goals and objectives included in State Homeland Security Strategies and Initiatives in the State Preparedness Report. Activities implemented under SHSP must support terrorism preparedness by building or enhancing capabilities that relate to the prevention of, protection from, or response to, and recovery from terrorism in order to be considered eligible. However, many capabilities which support terrorism preparedness simultaneously support preparedness for other hazards. Grantees must demonstrate this dual-use quality for any activities implemented under this program that are not explicitly focused on terrorism preparedness.

The project under this grant is "Upstate Regional WMD Bomb Team, Anderson County SO." The Bomb Team is comprised of highly trained personnel, who also respond to unstable/hazardous commercial explosives, military ordnances, and bomb threats. The team is outfitted with a bomb robot used to approach suspected devices, and with the use of video technology, the technician can more safely render suspected devices safe. There is always potential to encounter WMD situations, and team members must be trained to and have proper equipment to handle those situations as they occur. With the funds awarded, SLED has approved the purchase of a tactical search suit, two tactical vests, a portable x-ray generator, 4 night vision helmet mounts, and designated \$5,000 for exercise support for the annual regional exercise. For these purchases, there are not any foreseen ongoing commitments beyond those which are already provided for the upkeep of equipment for the bomb team. Any funds that are spent beyond the grant award will be expended from the ACSO budget or the ACSO support services budget.

COSTS	Grant Award Amount	Ongoing Grant Commitments					Cumulative Operational Costs
		FY 17-18	FY 18-19	FY 19-20	FY 20-21	FY 21-22	
Personnel							0
Operating Cost	6,000.00						0
Contractual Costs							0
Insurance Costs							0
Capital Costs	29,000.00						0
Total	35,000.00	0	0	0	0	0	0
FTE (new)							0
Source of Funds							
Grant Covers 100%. There is no match required.	35,000.00						35,000
							0
							0
							0
Total Funds	35,000.00	0	0	0	0	0	35,000

Form approved for submission by: *[Signature]*

Date Approved by Finance Committee: _____

Date Approved by County Council: _____

GRANT CAPITAL ITEMS

If you are requesting new Capital Items on the grant (**Items over \$1,000**), please provide in detail the item description and where the item will be used/located. Then sign and return this form along with the Grant Fiscal Impact Form to Finance.

DEPARTMENT: 5912 - FEMA

GRANT NAME: FY2017 State Homeland Security

GRANT NUMBER: 17SHSP02

PROJECT MGR: Robert Gebing

CONTACT NUMBER: 864-260-1006

CAPITAL ITEM REQUESTED: (1) — Portable x-ray generator

LOCATION WHERE CAPITAL ITEM WILL BE USED: Bomb Team

DETAIL DESCRIPTION AND PURPOSE FOR CAPITAL ITEM: Requesting a small portable x-ray generator that helps produce an x-ray image with equipment used by the Bomb team. The ACSO Bomb Squad currently uses LOGOs, ScanX, and recently, with awarded grant funding, acquired a NeXray system. The purchase of a small x-ray generator will enhance the current capability of the NeXray system in a WMD environment.

AMOUNT: \$ 5,000.00

NOTE: Price should include taxes and shipping and handling charges.

DOES CAPITAL ITEM REPLACES OLD ITEM ALREADY ON HAND?
(If yes fill in the information below)

YES **NO**
(Circle one)

If so, please tell how item to be replaced will still be used and location where it will be used.

SIGNATURE OF DEPARTMENT MANAGER:



SIGNATURE OF DIVISION DIRECTOR:

GRANT CAPITAL ITEMS

If you are requesting new Capital Items on the grant **(Items over \$1,000)**, please provide in detail the item description and where the item will be used/located. Then sign and return this form along with the Grant Fiscal Impact Form to Finance.

DEPARTMENT: 5912 - FEMA

GRANT NAME: FY2017 State Homeland Security

GRANT NUMBER: 17SHSP02

PROJECT MGR: Robert Gebing

CONTACT NUMBER: 864-260-1006

CAPITAL ITEM REQUESTED: (2) — Tactical/Fragmentation style vests

LOCATION WHERE CAPITAL ITEM WILL BE USED:

Bomb Team

DETAIL DESCRIPTION AND PURPOSE FOR CAPITAL ITEM:

Requesting tactical/ fragmentation style vests required by NBSCAB for the bomb technicians. Currently the ACSO Bomb Squad has no issued tactical/fragmentation style vests. These vests recently became a requirement per the NBSCAB instead of a recommendation making this purchase a critical need for the team and the safety of the Bomb Technicians.

AMOUNT: \$10,000 (\$5,000 each)

NOTE: Price should include taxes and shipping and handling charges.

DOES CAPITAL ITEM REPLACES OLD ITEM ALREADY ON HAND?
(If yes fill in the information below)

YES **NO**
(Circle one)

If so, please tell how item to be replaced will still be used and location where it will be used.

SIGNATURE OF DEPARTMENT MANAGER:



SIGNATURE OF DIVISION DIRECTOR:

GRANT CAPITAL ITEMS

If you are requesting new Capital Items on the grant (**items over \$1,000**), please provide in detail the item description and where the item will be used/located. Then sign and return this form along with the Grant Fiscal Impact Form to Finance.

DEPARTMENT: 5912 - FEMA

GRANT NAME: FY2017 State Homeland Security

GRANT NUMBER: 17SHSP02

PROJECT MGR: Robert Gebing

CONTACT NUMBER: 864-260-1006

CAPITAL ITEM REQUESTED: (1) - Lightweight EOD Search Suit

LOCATION WHERE CAPITAL ITEM WILL BE USED: Bomb Team

DETAIL DESCRIPTION AND PURPOSE FOR CAPITAL ITEM:

Requesting a tactical search suit to respond to WMD type events and support SWAT response in actual or suspected WMD's in a tactical environment where a rapid response

is the priority. This capability allows a Bomb Technician to respond to support WMD missions in a faster and more tactical manner. This suit is a highly mobile, modular, versatile, lightweight tactical suit which covers the torso, arms, and legs of the end-user. It has a scalable platform and users can select different components depending on the threat and mobility requirements. It will also integrate with conventional gas masks.

AMOUNT: \$ 14,000.00

NOTE: Price should include taxes and shipping and handling charges.

DOES CAPITAL ITEM REPLACES OLD ITEM ALREADY ON HAND?
(If yes fill in the information below)

YES NO
(Circle one)

If so, please tell how item to be replaced will still be used and location where it will be used.

The suit requested will replace the second of the two SRS5 search suits used which was designed for historically slower and more methodical responses and currently has over 18 years of service. 2016 SHSP allowed the purchase of one TAC-6 Search Suit, leaving one SRS-5 as a critical need to be replaced.

SIGNATURE OF DEPARTMENT MANAGER:



SIGNATURE OF DIVISION DIRECTOR:

RESOLUTION _____**A RESOLUTION AUTHORIZING ANDERSON COUNTY TO SERVE AS APPLICANT AND ADMINISTRATOR, ON BEHALF OF TRI-COUNTY TECHNICAL COLLEGE (TCTC), TO THE SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (SCDHEC) FOR A RECYCLED TIRE AND PLASTIC RESEARCH EDUCATION AND DEVELOPMENT SERVICE (RTP-READS) GRANT, AND OTHER MATTERS RELATED THERETO**

Whereas, Anderson County and Tri-County Technical College have a history of partnership on projects undertaken for the benefit of the county and the region; and

Whereas, Anderson County has in the past provided grant applicant and administration services for TCTC for such projects, including the development of the QuickJobs Center on Michelin Boulevard; and

Whereas, TCTC has asked Anderson County to apply, on TCTC's behalf, for an RTP-READS grant offered through SCDHEC, to be used for the development and promotion of scrap tire and plastic applications and recycling technology;

NOW, THEREFORE BE IT RESOLVED by the Anderson County Council that:

- 1) The Anderson County Administrator is authorized to submit the described grant application;
- 2) The Administrator and the County Attorney are authorized to negotiate and develop with TCTC a Memorandum of Understanding (MOU) that will outline each parties roles and responsibilities related to the grant-funded project;
- 3) Anderson County Council must authorize formal acceptance of the grant as well as the MOU and any other related agreements prior to the grant's execution;
- 4) Nothing in this resolution shall be construed as approval or commitment by Anderson County Council to provide matching funds or any other sort of funding related to the project.

**Establishment of Recycled Tire and
Plastic Research Education and
Development Service (RTP-READS)**

Research Proposal

Submitted by: Serji Amirkhanian

September 17, 2017

INTRODUCTION

South Carolina's goal is to recycle at least 40% of its municipal solid waste by 2020. The recycling rate is over 25% as of 2017. Over 4.3 million tons of materials were disposed of around the state which 1.1 million tons were recycled translating to over 430 pounds per person. In many parts of the country, including SC, recycling is an important part of the economy. In general, in many cases, recycling creates jobs and businesses and generates income for the state. A study conducted by the College of Charleston concluded that in 2014, the state's recycling industry had a \$13 billion annual impact on SC's economy providing more than 22,000 direct jobs, \$2.7 billion in annual labor income and \$330 million in state and local taxes.

Over 4.8 million scrap tires are being produced each year in South Carolina. Most of these tires end up in an approved recycling facility where tires are shredded and used for many applications (e.g., tire-derived fuel (TDF), mulch, rubberized asphalt, etc.). However, as of today two major recycling facilities in the state (Monck Corner and Anderson) were shut down for many reasons. In addition, over 19,000 tons of waste plastic was recycled last year in the state. This proposal addresses a new and a unique process to handle these two commodities.

REQUESTED ACTION

Through Department of Health and Environmental Control (DHEC), funding is requested for a Recycled Tire and Plastic Research Education and Development Service (RTP-READS) for state of South Carolina to develop and promote scrap tire and plastic applications and recycling technology, and will require an investment of up to \$525,000 per year for administrative services for 5-year term. An additional investment may be made each year for demonstration projects to be performed around the state.

I. OVERVIEW

Using the successful Asphalt Rubber Technology Service (ARTS) program in South Carolina as a model, the proposed Recycled Tire and Plastic Research Education and Development Service (RTP-READS) will provide many services in the area of scrap tires and plastic recycling. Staff who previously worked at ARTS program will staff and direct the RTP-READS program to advance scrap tire and plastic technologies and technology-based applications by promoting environmentally-sensitive, value-added scrap tire and plastic recycling applications and technologies through education and technology transfer.

The Program will focus activities in the promotion of sustainable technology such as scrap tire rubber modified products for sports/playground surfaces, scrap tires in infrastructure applications (STA), rubberized asphalt pavement (RA), injection molding and blow-molding technologies, molded goods in many areas, and the manufacture of industrial and consumer products using crumb rubber and plastics.

II. PROPOSED ACTIVITIES BY TASK

TCTC will provide the administrative capacity required for this program, which will be directed with those who successfully staffed the ARTS program at Clemson University. RTP-READS activities will be coordinated under the direction of a single director/administrator. TCTC proposes to serve as the lead agency for RTP-READS and intends to solicit the advice, counsel, programmatic input and assistance of other

universities, agencies, or recognized experts around the country and the world who may express an interest and capacity to cooperate.

The RTP-READS director will work directly with state agencies to provide strategic planning and leadership for the program for a period of five years.

Task A – Provide Technology Transfer Materials and Information Service

1. Maintain a library of technical materials related to rubber-modified asphalt applications, plastics, molded goods, injection molding, blow molding technology, and STR technology. Both research reports and “real world” summaries of research will be available electronically as well as hard copy.
2. Provide reference materials as requested through the news bulletin. Available reference materials from relevant sources will be advertised through the news bulletin, workshops, personal contacts with government employees, and other agencies or interested parties. Reference materials will be available on the website as well as hard copy.
3. A technical advisory service will be provided to answer questions and provide information regarding scrap tire and plastics recycling technologies and related topics to industry, employees of local governments and state agencies, universities, contractors, suppliers, and other interested parties. Expertise from the staff and other industry contacts will serve as a resource for providing appropriate responses to inquiries.
4. The office will be staffed during normal working hours for the purpose of responding to technical inquiries.
5. Staff will utilize resources, such as the EPA’s Resource Conservation Challenge (RCC) group, to disseminate technical information to the appropriate agencies, groups, etc.

Task B – Education, Training, Workshops, Seminars and Conference Presentations for Scrap Tire Rubber and Scrap Plastic Technologies and Utilization

ReTREADS staff will:

1. Collaborate with DHEC staff in preparing educational modules related to the use of STR technology for a variety of educational levels, including elementary school, middle school, high school and college, to be distributed by state agencies.
2. Seek funding from other sources (e.g., EPA) to produce and provide educational materials for a variety of educational and technical levels.
3. Provide training and promotion workshops, seminars, conferences, and presentations for personnel of local governments and state agencies and other members of the engineering and architectural design community to raise the awareness of STR applications and provide latest research findings.
4. Topics addressed in items above will include:
 - STR applications in relation to Green Building and Leadership in Energy and Environmental Design (LEED) accreditation
 - Designing STR technology and rubberized asphalt applications
 - Field inspection and lab testing associated with STR technology and rubberized asphalt applications
 - General introduction to the use of scrap tire rubber in sports surfacing
 - General introduction to the use of scrap tire rubber in playground surfacing

- General introduction to the use of scrap tire rubber in loose fill applications (i.e., playgrounds and landscaping)
 - General introduction to the use of scrap tire rubber in infrastructure applications
 - Current research activities related to the technologies of STR technology and rubberized asphalt
5. Regarding the utilization of plastics, items 1, 2 and 3; described above, will be also implemented.
 6. Topics addressed in this area will include:
 - Scrap plastic applications in relation to Green Building and Leadership in Energy and Environmental Design (LEED) accreditation
 - Designing scrap plastic technology and injection molding applications
 - General introduction to the use of scrap plastics in infrastructure industry
 - General introduction to the use of scrap plastics in molded goods using injection molding
 - General introduction to the use of scrap plastics in molded goods using blow-molding technology
 - General introduction to the use of scrap tire rubber in plastic and rubber molded and extruded products
 - General introduction to the use of thermoplastic elastomers (TPEs)
 - Current research activities related to the technologies of scrap plastics

Task C – Provide a Liaison between EPA, State DOTs, Local Governments and the Scrap Tire and Plastic Industries

Staff will act as a liaison between the United States Environmental Protection Agency (EPA), State Departments of Transportation (DOT), local governments, and the scrap tire and plastic industries in several ways, including:

1. Communicating on a regular basis with representatives from counties, municipalities, producers, haulers, and recyclers,
2. Identifying the scrap tire market-related needs of each county through these communications,
3. Helping to identify suggestions for scrap tire usage in each county,
4. Communicating with State DOT representatives to encourage the utilization of scrap tire rubber in paving and other highway applications,
5. Monitoring the scrap tire status and pulse of the scrap tire industry on a county-by-county basis in participating states,
6. Identifying the scrap plastic market-related needs of each county through these communications, and
7. Helping to identify suggestions for scrap plastic usage in each county.

Task D – Market Development

Staff will work with State Departments of Commerce (DOC) and related entities to perform several functions to increase added-value markets for scrap tire and plastic materials. Staff will:

1. Create an online database of regional scrap tire and plastic processors, manufacturers of scrap tire and plastic products, and contractors of scrap tire and plastic applications.
2. Organize “product expositions” specifically pinpointed to help increase the use of scrap tire and plastic derived products.

3. Identify companies that produce scrap tire and plastic derived products that have facilities located in SC.
4. Identify potential end-users of scrap tire and plastic derived products and the conferences (within the region) that they would most likely attend. The staff will set up "product expositions" for the identified companies at the appropriate conferences increasing the exposure of these products with their most-likely end-users.
5. Encourage SCDOT to increase utilization of scrap tire rubber in paving and other highway applications.
6. Identify manufacturing opportunities in SC for scrap tire and plastic by-products, with particular focus on the utilization of crumb rubber and plastic flakes.
7. Examine the potential of existing industrial capability, as well as target new companies that could make products with crumb rubber and scrap plastics.
8. Support expansion efforts of new or existing tire and plastic recycling companies in SC that will result in stated mission.
9. Collaborate with representatives from SC DOT and contractors to identify potential new materials and techniques for utilizing scrap tire rubber for pavement rehabilitation, e.g. crack fillers, chip seals, etc.
10. Identify for possible funding candidate market development projects in the areas of business development or product development that will directly result in long-term market demand for high value scrap tire rubber and plastic. This subtask is discussed in greater detail in *Task F: Administer Demonstration, Research, and Market Development Projects*.

Task E – Publish an Electronic News Bulletin

A semi-annual, electronically-distributed news bulletin will be assembled and edited by the program staff and will contain:

1. Announcement of opportunities to participate in the program through demonstration and research projects.
2. Articles describing on-going research activity and status reports on demonstration projects underway.
3. Announcements of meetings, conferences, and seminars in which contractors, engineers, and employees of local or state agencies might have an interest.
4. Training workshop announcements.
5. A list of technical materials available for distribution, including publications, training packages, films, and videotapes, selected to illustrate best practices.
6. Articles and information related to STR technology and rubberized asphalt technology utilization.
7. Articles and information related to scrap plastic technology.

Program staff will compile and maintain an electronic mailing list of City-, County-, and State-level contacts who would have an interest in this program, including county administrators, public works directors, engineers, product lab supervisors, specification writers, foremen, supervisors, managers, and contractors. Appropriate agencies from participating states would be expected to share contact information of any of these types of contacts with the staff for the purpose of establishing this electronic mailing list.

Task F – Administer Demonstration Projects, Research Projects, and Market Development Projects

In years where funds are available for demonstration/research/market development projects:

1. The funding for any demonstration project for each individual county, each year, would be determined by a committee of experts and DHEC/DOC officials.
2. RTP-READS Staff will design, manage, and evaluate approved field / manufacturing demonstration projects and research projects employing the technologies of scrap tire rubber and plastic products.
3. The selection of sites and other project scope planning issues for demonstration projects for each individual project will be reviewed by all interested parties. Based on prepared details, specifications and other scope-of-work documents, demonstrations projects will be performed by qualified private contractors.
4. RTP-READS staff will be available to the contractors for technical assistance. Such contractors will perform their work under separate contract with the TCTC Grants Office. Demonstration projects will be monitored for the duration of the program for performance measurement.
5. Proposals for candidate demonstration projects will be accepted from local municipalities/agencies/institutions, state agencies/institutions, and private companies. Criteria for evaluation of candidate projects for each individual participating project will be determined in advance of proposal solicitation by RTP-READS in cooperation with DHEC's staff.
6. Some selected projects will receive funding over and above normal product use cost to defray the extra costs associated with the use of scrap tire rubber and plastic technology as compared to conventional methods to provide incentives for participation in the program, and to defray the cost of instrumentation needed to measure performance, if needed. All project funding will be approved by RTP-READS technical staff and DHEC for each individual project.
7. RTP-READS staff will conduct research on an as-needed basis on various applications of STR and scrap plastic to develop standards and guidelines for construction/installation and verify the applicability of these products by constructing field test sections (or manufacturing process) and measuring performance characteristics. Proposals for candidate research projects will be accepted from local municipalities/agencies/institutions, state agencies / institutions, and private companies.
8. RTP-READS staff will work closely with state agencies to identify candidate market development projects. The candidate projects will be in the areas of business development or product development that will directly result in long-term market demand for high value scrap tire rubber and scrap plastic.

Proposed Annual Budget for DHEC's Proposal for 5-Year Grant

<u>Line Item</u>	<u>Per Year</u>
Director: Serji Amirkhanian	\$125K
Co-Director Marketing	\$85K
Co-Director Technical	\$85K
Program Coordinator	\$45K
Technician	\$45K
Fringe (40%)	\$154K
Office Supplies	\$15K
Travel	\$10K
Lab Supplies/Maintenance/Calibration	\$45K
Marketing (Seminars/Videos/Conferences)	\$30K
Accounting	\$10K
<u>Lab Fees</u>	<u>\$70K</u>
Total Annual Budget	\$719K

PROJECTION OF GENERAL FUND NET INCOME - FY 18

	Budget	Actual	Variance	% of Budget
REVENUES				
Taxes	48,090,000	48,421,035	331,035	100.69%
County	5,741,005	6,160,462	419,457	107.31%
Intergovernmental	10,275,500	10,634,838	359,338	103.50%
Interest	110,000	206,736	96,736	187.94%
Other	1,660,500	1,661,494	994	100.06%
Total	65,877,005	67,084,566	1,207,561	101.83%
EXPENDITURES				
Personnel	50,386,618	49,157,303	(1,229,316)	97.56%
Operating	13,675,707	10,564,637	(3,111,070)	77.25%
Contractual	4,235,227	3,657,705	(577,522)	86.36%
Capital	1,200	4,509	3,309	375.73%
Contingency	18,648	8,626	(10,022)	46.26%
Special Appropriations	2,220,290	2,220,290	-	100.00%
Total	70,537,690	65,613,069	(4,924,621)	93.02%
Excess of Revenues over Expenditures	(4,660,685)	1,471,497	6,132,182	
OTHER FINANCING SOURCES/USES				
Transfers In	895,250	245,000	(650,250)	27.37%
Transfers Out	(1,681,310)	(1,171,310)	510,000	69.67%
Total	(786,060)	(926,310)	(140,250)	117.84%
Net Income for Fiscal Year	(5,446,745)	545,187	5,991,932	
Supplemental Budget	(2,700,000)	(2,700,000)		
Final Net Loss	(8,146,745)	(2,154,813)		
Fund Balance, July 1		26,467,870		
Fund Balance, June 30		<u>24,313,057</u>		

BUDGET TRANSFER

DIVISION: Public Works
 DEPARTMENT: PAWS 5111

FROM:		TO:	AMOUNT:
TITLE	<u>Telephone</u>	TITLE	<u>Uniforms & Clothing \$ 1500.00</u>
ACCT.#	<u>001-5111-000-275</u>	ACCT#	<u>001-5111-000-280</u>
TITLE	<u>Water & Sewer</u>	TITLE	<u>Uniforms & Clothing \$ 2000.00</u>
ACCT.#	<u>001-5111-000-281</u>	ACCT#	<u>001-5111-000-280</u>
TITLE	_____	TITLE	_____
ACCT.#	_____	ACCT#	_____
TITLE	_____	TITLE	_____
ACCT.#	_____	ACCT#	_____
TITLE	_____	TITLE	_____
ACCT.#	_____	ACCT#	_____

Explain, in COMPLETE DETAIL, the reason for the transfer.

REASON: transfer of funds needed due to employees turn over with new uniform purchases necessary.

Is this transfer within your department? (Circle One) Yes No
 Is this transfer within your division? (Circle One) Yes No

DEPT. HEAD: _____ DATE: 2/5/18
 DIVIS HEAD: [Signature] DATE: 2/6/18
 FINANCE: [Signature] DATE: 2-12-18
 ADMINISTRATOR: _____ DATE: 2-13-18
 Journal Entry # _____ DATE: _____