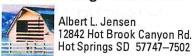


Mt. View Lodge AF&AM #161





Fall River & Oglala Lakota County State's Attorney

SEP 0 3 2020

RECEIVED BY:

DATE: August 18, 2020

TO:

Fall River County States Attorney

906 N River St

Hot Springs, SD 57747

FROM: Albert L. Jensen

Lodge Secretary

SUBJECT: Notification of Fundraising Event

This letter is to inform your office that the Edgemont Masonic Lodge #161 located at 309 3rd Avenue Edgemont SD is planning to conduct a raffle beginning September 16, 2020. We would like to sell a total of 250 raffle tickets at \$10 each for one \$500 Master Card Gift Card. Attached are samples of the raffle tickets for your review.

The drawing will occur at the Mt. View Lodge at approximately 7pm on April 21, 2021. Proceeds will go toward approved Masonic scholarships and charities.

If you have any questions, please contact WB Jay Darrow at (307) 941-0525 or darrow126@yahoo.com.

Thank you,

Mt. View #161 Lodge - Secretary

Lodge Seal

CC: Grand Lodge AF & AM of South Dakota South Dakota Secretary of State

Jason Duwenhoegger

Sep 8, 2020, 2:57 PM (18 hours ago)

to me

There is no continued maintenance. Just wipe them off when you change air filters.

We are at the end of the time to order and get them install before January but I think we can still make it happen. It would need to be approved very soon

Get Outlook for iOS

From: Lyle Jensen lyle.jensen@frcounty.org
Sent: Tuesday, September 8, 2020 7:38:39 AM
To: Jason Duwenhoegger JasonD@tem-tech.com
Subject: Re: Global Plasma Solutions systems

Global Plasma Solutions Virtually Eliminates Static SARS-CoV-2 with Proprietary NPBITM Technology

Global Plasma Solutions is the first air purification solution to test SARS-CoV-2, achieving a 99.4% reduction of the surface strain within 30 minutes

CHARLOTTE, NORTH CAROLINA — June 10, 2020 — Global Plasma Solutions, the leader in Indoor Air Quality, announced today industry-leading ionization testing results, demonstrating a 99.4% reduction rate on a SARS-CoV-2 (COVID-19) surface strain within 30 minutes, the first instance in which an air purification company has effectively neutralized SARS-CoV-2. Following initial testing of coronavirus 229E in March 2020, Global Plasma Solutions utilized its proprietary needlepoint bipolar ionization to inactivate SARS-CoV-2. The study was jointly executed with Aviation Clean Air.

In this laboratory study, Aviation Clean Air designed a test to mimic ionization conditions like that of a commercial aircraft's fuselage. Based on viral titrations, it was determined that at 10 minutes, 84.2% of the virus was inactivated. At 15 minutes, 92.6% of the virus was inactivated, and at 30 minutes, 99.4% of the virus was inactivated.

"The testing results we achieved through our proprietary needlepoint bipolar ionization technology clearly demonstrate that Global Plasma Solutions is the gold standard in air purification," said Global Plasma Solutions Founder and Chief Technology Officer, Charles Waddell. "For any kind of facility from commercial buildings to aircrafts, delivering the cleanest, safest indoor air environment will only become increasingly more important, and our ozone-free technology is one of the most sophisticated products on the market."

Understanding needlepoint bipolar ionization

Needlepoint bipolar ionization works to safely clean indoor air, leveraging an electronic charge to create a high concentration of positive and negative ions. These ions travel through the air continuously seeking out and attaching to particles. This sets in motion a continuous pattern of particle combination. As these particles become larger, they are eliminated from the air more rapidly.

Additionally, positive and negative ions have microbicidal effects on pathogens, ultimately reducing the infectivity of the virus. Global Plasma Solutions' needlepoint bipolar ionization is ozone-free and the only kind in its category to pass the RCTA DO-160 standard for aircraft. Traditional bipolar ionization systems produce harmful ozone as a byproduct.

About Global Plasma Solutions

<u>Global Plasma Solutions</u> (GPS) is the leader in Indoor Air Quality, with over 30 patents and more than 150,000 installations worldwide using our needlepoint bipolar ionization (NPBI) technology to deliver clean indoor air that is safe and healthy – producing neither ozone nor other harmful by-products. All of our NPBI products are UL and CE certified and registered and use NPBI to purify the air by eliminating airborne particulates, odors and pathogens. GPS was founded in 2008 and is headquartered in Charlotte, North Carolina.

CONTACT

Kevin Boyle

kevin.boyle@globalplasmasolutions.com

(980) 214 2021























With over 30 patents and more than 150,000 installations worldwide using our NEEDLEPOINT BIPOLAR IONIZATION technology, also known as NPBI, GPS is truly the Indoor Air Quality (IAQ) revolutIONIZER.

Our proven technology delivers clean indoor air that is safe and healthy – producing neither ozone nor other harmful by-products. All our NPBI products are UL and CE approved. Through NPBI, our products purify the air by eliminating airborne Particulates, Odors and Pathogens. All this while saving you 30% on Energy consumption and lowering your carbon footprint by reducing outdoor air intake by up to 75%.

Engineering Air for a Cleaner World™



GPS FACT: GPS can be installed in any system in any building...

- Agriculture
- Airports
- Animal Care
- Arenas & Stadiums
- Banks
- Casinos
- Child Care
- Convention Centers
- Fitness
- Food Service
- Healthcare

- Hospitality
- Hospitals
- Institutional
- Manufacturing
- Manufacturing
- Office Building
- Retail
- Schools & Universities
- Senior Care
- Transportation
- Theatres
- Worship

Truly a revolutIONIZER A pioneer with many innovations:

1st

- ... with universal power supply
- ... with auto-cleaning
- ... duct-mounted design
- ... to use carbon fiber brush needlepoint emitters
- ... with ionization bar
- with flexible ionization strip
- ... modular ionization bar
- ... to achieve UL 867 Ozone Standard
- ... AND ONLY to pass the RCTA DO-160 standard for aircraft
- ... to be installed on a commercial jet
- ... to be certified by FAA
- ... to be installed in commercial hand driers
- ... AND ONLY to receive UL 2998 Ozone Free Certification
- ... to receive OSPHD seismic (OSP) certification

GPS DELIVERS P.O.P.E.



Particle Reduction

The GPS NPBI technology reduces airborne particles (i.e., dust, pet dander, pollen) through agglomeration. The ions attach to the airborne particles. The particles are subsequently attracted to one another, effectively increasing their mass and size. The air filtration system easily captures the larger particles, increasing the capture efficiency of your HVAC system.



Pathogen Reduction

During the GPS cleaning process the NPBI technology attacks and kills viruses, mold spores and bacteria. The ions steal away hydrogen from the pathogens, leaving them to die, and leaving you with clean and healthy indoor air.



Odor Reduction

During the GPS cleaning process chemical, pet, cooking, and other odors are broken down into basic harmless compounds, leaving the indoor air fresh smelling and free of odor causing VOCs.



Energy Saving

GPS' environmentally friendly cleaning process allows commercial buildings to significantly reduce the amount of outdoor air required to operate. This equates to a safer, more comfortable environment that requires up to 30% less energy to condition.

THE GPS ADVANTAGE

	GPS NPBI	OTHER BPI	CORONA DISCHARGE	HEPA FILTERS	CARBON FILTERS	ULTRAVIOLET (UV)	UV-PCO
Produces Harmful Byproducts	None	Yes	Yes	No	No	Yes	Yes
Reduces Airborn Particles	/	Yes	Yes	Yes	No	No	No
Destroys VOCs	~	Yes	Yes	No	Captures	No	Yes
Kills Pathogens		Yes	Yes	No	Captures	Yes	Yes
Reduces Energy Cost	30%	Yes	Yes	No	No	No	No
UL 2998 No-Ozone Certified		No	No	N/A	N/A	N/A	N/A
Treats In-Room Air	~	Yes	Yes	No	No	No	No
No Replacement Parts	✓	No	No	No	No	No	No
Auto Self-Cleaning	✓	No	No	No	No	No	No
Simple to Install	✓	No	No	No	No	No	No
Low Total Cost	~	Yes	No	No	No	No	No

AUTO-CLEANING NPBI

GPS-FC48-AC™

An automatic self-cleaning, lightweight NPBI system that handles up to **4,800 CFM or 12 tons**. Designed for multiple mounting options including fan inlet, interior duct walls or floors. The composite construction allows for mounting in corrosive environments.

Features

- > 400 Million + and lons Per cc/sec
- Universal Voltage Input (24 240 VAC)
- Programmable Auto-Cleaning Cycle
- Carbon Fiber Brush Emitters
- Alarm Contacts



MAINTENANCE FREE

Features

- > 300 Million + and lons Per cc/sec
- Universal Voltage Input (24 240 VAC)
- Programmable Auto-Cleaning Cycle
- Carbon Fiber Brush Emitters
- Alarm Contacts

construction allows for

An automatic self-cleaning, lightweight NPBI system that handles up to **2,400 CFM or 6 tons**. Designed for multiple mounting options including fan inlet, interior duct walls or floors. The composite construction allows for mounting in corrosive environments.

APPLICATIONS

- Agriculture
- Airports

GPS-FC24-AC™

- Animal Care
- Arenas & Stadiums
- Banks
- Casinos
- Child Care
- Convention Centers
- Fitness
- Food Service
- Healthcare

- Hospitality
- Hospitals
- Institutional
- Manufacturing
- Office Building
- Retail
- Schools & Universities

UNIVERSAL VOLTAGE

- Senior Care
- Transportation
- Theaters
- Worship

CARBON FIBER EMITTERS

GPS-DM48-AC™

The world's first automatic self-cleaning, duct mounted, lightweight NPBI electronic air cleaner. The maintenance free unit is designed for indoor or outdoor duct mounting and can handle up to 4,800 CFM or 12 tons.

Features

- > 400 Million + and lons Per cc/sec
- Universal Voltage Input (24 240 VAC)
- Programmable Auto-Cleaning Cycle
- Carbon Fiber Brush Emitters
- Alarm Contacts
- 3/4 Quick-Turn Duct Adapter





BARS & STRIPS

Features

- > 140 Million + and lons Per Inch/cc/sec
- Universal Voltage Selector Switch
- Six HV Output Ports
- Alarm Contacts
- Illuminated On/Off Switch
- Plasma on Indication Light
- UL 2998 Ozone Free



The GPS-iMOD is a modular NPBI system that is field assembled to any length up to 240 inches in 6-inch increments. The fiberglass composite and carbon fiber GPS-iMOD can be mounted in corrosive environments. It can treat 50 – 250 CFM per inch of bar, depending on the application.



OSHPD



GPS-iRIB® 18/36

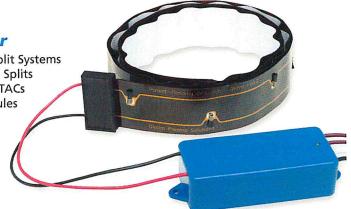
The GPS-iRIB is available in 18" and 36" lengths. They are made from a flexible chemical, heat and cold resistant Kapton® material containing a circuit with special carbon fiber ion emitters soldered into the circuit traces. This mechanism is engineered to deliver the highest level of ionization with the least amount of energy in the most compact size. Designed for 3200 CFM or 8 tons.

Features

- > 35 Million + and lons Per Foot/cc/sec
- Fold-To-Length Circuit
- Local LED Power Indication
- Integral Control Relay for BAS Interface
- Velcro® for Easy Installation
- Voltage Input 110VAC to 240VAC

Perfect For

- Traditional Split Systems
- Ductless Mini Splits
- Heat Pump PTACs
- Ducted Modules
- Fan Coils

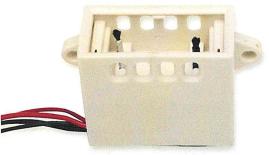




GPS-NEMA4-OE

The GPS-NEMA4-OE is a NEMA 4X-rated fiberglass enclosure designed to house one GPS-iMOD power supply. The panel adds a superior finished look to any project while providing the required protection against foreign substances, such as water and dust, when power supplies are mounted in non-NEMA 1 rated environment.

COMPACT NPBI



GPS-FC-1™ / GPS-FC-2™

The GPS-FC series is designed to be mounted inside fan coils, heat pumps, PTACs, ductless mini-splits and air handlers up to 1,200 CFM or 3 tons. Their compact size allows them to be mounted almost anywhere in just a few minutes.

Features

- > 25 Million + and lons Per cc/sec
- GPS-FC-1 Powered by 110 120 Volts AC
- GPS-FC-2 Powered by 208 240 Volts AC
- Carbon Fiber Brushes
- LED Operation Status
- Carbon Fiber Brush Emitters





GPS-FC-3-BAS™

The GPS-FC-3-BAS unit is designed to be mounted inside fan coils, heat pumps, PTACs, ductless mini-splits, and air handlers up to **3,200 CFM or 8 tons**. Its compact size and simple mounting requirements allow it to be quickly mounted almost anywhere.

Features

- > 170 Million + and lons Per cc/sec
- Powered by 24 Volts AC
- Carbon Fiber Brush Emitters
- BAS Alarm Contacts
- LED Operation Status

SENSORS & MEASUREMENTS

GPS-iMEASURE™

The GPS-iMEASURE is the first commercially available ion detector that can be permanently mounted in the space to measure ion levels in real time and report back to a BAS.



GPS-iMEASURE-D™

The GPS-iMEASURE-D ion detector is permanently mounted in the duct downstream of any GPS ionization device. It measures ion levels in real time and reports back to a BAS. It includes three sensitivity levels: 20,000/200,000/2,000,000 ions/cc/sec that can be set based on the application and in-duct location.

MONITOR IN-DUCT IONIZATION LEVELS

- 20,000 to 2M lons/cc
- Input Voltage 12 to 24V AC or DC
- LED Operation Status



GPS-iDETECT-P[™]

The GPS-iDETECT-P is a plenum-mounted ionization detector that confirms the output from the GPS-iMOD. The GPS-iDETECT-P provides the ability to monitor ionization status in a plenum to confirm that the ionization equipment is working properly.

Features

- Universal Voltage Input
- 1,000 200,000,000 lons/cc (+ or -)
- 0-100% Humidity

How Ionization Works

GPS' NPBI technology works to safely clean the air inside industrial, commercial and residential buildings. The patented technology uses an electronic charge to create a plasma field filled with a high concentration of + and - ions. As these ions travel with the air stream they attach to particles, pathogens and gas molecules. The ions help to agglomerate fine submicron particles, making them filterable. The ions kill pathogens by robbing them of life-sustaining hydrogen. The ions breakdown harmful VOCs with an Electron Volt Potenial under twelve (eV<12) into harmless compounds like O₂, CO₂, N₂, and H₂O. The ions produced travel within the air stream into the occupied spaces, cleaning the air everywhere the ions travel, even in spaces unseen.



What is an Ion you may ask?

An ion is a molecule or atom that is positively or negatively charged, meaning that it has electrons to give or needs electrons to become uncharged, thus becoming stable.

Mother Nature's Way of Cleaning

GPS' technology generates the same ions as Mother Nature creates with lightning, waterfalls, and ocean waves. Mother Nature uses energy to break apart molecules. It is nature's way of cleansing the air naturally and creating a healthy environment. The only difference is that GPS' technology does it without forming ozone or other harmful byproducts.

GPS' NPBI technology has been certified by UL 867 and UL 2998 to be ozone free.





3rd Party Testing Summary

Pathogen	Time in Chamber	Kill Rate	Test Agency				
Tuberculosis	60 minutes	69.09%	EMSL				
Clostridium Difficile	30 minutes	86.87%	EMSL				
Norovirus	30 minutes	93.50%	ATS Labs				
MRSA	30 minutes	96.24%	EMSL				
Staphylococcus	30 minutes	96.24%	EMSL				
Mold Spores	24 hours	99.50%	GCA				
E.coli	15 minutes	99.68%	EMSL				
Legionella	30 minutes	99.71%	EMSL				

Airborne Mold Spores
Reduced by 95%





Owned by Accuratus Lab Services

GPS PRODUCT CHART					
AUTO-CLEANING LINE	VOLTAGE	CFM RATING	IONS/cc/sec		
GPS-FC24-AC	24-240 VAC	2,400	> 300 million		
GPS-FC48-AC	24-240 VAC	4,800	> 400 million		
GPS-DM48-AC	24-240 VAC	4,800	> 400 million		
COMPACT LINE	VOLTAGE	CFM RATING	IONS/cc/sec		
GPS-FC-1	110-120 VAC	1,200	> 25 million		
GPS-FC-2	208-240 VAC	1,200	> 25 million		
GPS-FC-3-BAS	24 VAC	3,200	> 170 million		
BARS & STRIPS LINE	VOLTAGE	CFM RATING	IONS/cc/sec		
GPS-iMOD	24-240 VAC	50-250 CFM/inch	> 140 million/in		
GPS-iRIB-18	110-240 VAC	3,200	> 35 million/ft		
GPS-iRIB-36	110-240 VAC	3,200	> 35 million/ft		

GPS FACT: Aviation ApplicationGPS' technology is the only active air purification system that has been designed and approved to operate in commercial and private aircraft. Aviation applications require passing the stringent RTCA DO-160 test proving the technology does not generate EMF, line noise or interfere with the avionics in any way. This is important to note because GPS' technology is used in many healthcare applications and will not cause interference with the imaging equipment.







Engineering Air for a Cleaner World™

980-279-5622 www.GlobalPlasmaSolutions.com

All technical information and advice given here are based on GPS previous experiences and/or test results. GPS gives this information to the best of its knowledge but assumes no legal responsibility. Customers are asked to check the suitability and usability in the specific application, since the performance of the product can only be judged when all necessary operating data are available. The above information is subject to change.

INDEPENDENT LABORATORY TEST RESULTS

Pathogens



Reducing the Spread of Disease

GPS clears the air of particles faster

Particulate matter includes pollutants, dust, allergens, mold, bacteria – and viruses. GPS' technology constantly generates a high concentration of positively and negatively charged ions. These ions travel through the air continuously seeking out and attaching to particles. Larger by virtue of combination, these particles are removed from the air more rapidly.

GPS Inactivates Pathogens

When ions come into contact with pathogens, their microbicidal effects reduce the infectivity of the virus.

GPS is Safe

Our needlepoint bipolar ionization is OZONE free and safe to use across commercial, industrial and residential buildings. Traditional bipolar ionization systems produce harmful ozone as a byproduct.

Performance Validation*



SENSITIVITY TESTING

A petri dish containing a pathogen is placed underneath a laboratory hood, then monitored to assess the pathogen's reactivity to NPBITM over time. This controlled environment allows for comparison across different types of pathogens.



SIMULATION TESTING

Counts of airborne pathogens are taken before and after aerosolizing them into a sealed, unoccupied laboratory environmental room installed with NPBI™ technology. The larger space more closely resembles a real-world environment.

^{*}Global Plasma Solutions (GPS) uses multiple data points to formulate performance validation statements. GPS technology is used in a wide range of applications across diverse environmental conditions. Since locations will vary, clients should evaluate their individual application and environmental conditions when making an assessment regarding the technology's potential benefits.



SARS-CoV-2

Laboratory Name: Innovative Bioanalysis

Cap Lic No: 9501843

Date: 5/27/2020

Pathogen Tested: SARS-CoV-2





Objective:

Aviation Clean Air commissioned testing on Global Plasma Solutions' GPS-DM48-AC model to assess its ability to neutralize SARS-CoV-2 in high-ion concentration specialty applications.

Methodology:

Single RE22 control chambers were set on a stainless steel table with pressure verification seals. The chambers had an internal working dimension of 16.5"W x 9"H x 12"D for a total cubic footage of 1.031. Under initial observation it was determined to seal the unit completely with no intake or exhaust port. Testing and control were conducted in an average ambient temperature of 72.6 degrees Fahrenheit.

A singular fan unit was set up at a 45-degree angle and affixed to the testing chamber. The initial control fan speed was measured at an average of 870 Ft/m. Under the original control section, the primary fan was set 10 inches away from ion production unit A and the average air flow speed past the ion producing nodes was 250Ft/m.

Experimental Results:

SARS-CoV-2 was exposed to needlepoint biploar ionization for a period of 10, 15, and 30 minutes. Based on viral titrations it was determined that at 10 minutes 84.2% of the viral particles became inactive, at 15 minutes 92.6% of the viral particles became inactive, and at 30 minutes 99.4% of the viral particles became inactive.





Norovirus

Laboratory Name: ATS Labs Project No: A14991

Date: 5/28/2013

Pathogen Tested: Feline Calicivirus





Objective:

The testing was conducted on the GPS-2400-1 model for its ability to inactivate Feline Calicivirus bacteria in the air.

Methodology:

The middle support bracket was attached to the bar containing one GPS-2400-1 Cold Plasma Generator at each end of the bar. The generators were placed with the carbon fiber brushes pointing down, in the back of a hood with the hood sash closed. Minimum Essential Medium (MEM) was supplemented with 5% heat-inactivated fetal bovine serum, 100 units/mL penicillin, 10 ~g/mL gentamicin, and 2.5 ~g/mL amphotericin B.

Experimental Results:

A 93.5% average reduction in viral titer was demonstrated following a 30 minutes of exposure time, as compared to the average titer of the dried virus control. The average log reduction in viral titler was 1.19 log.

TIME IN CHAMBER 30 MINUTES RATE OF REDUCTION 93.5%



Human Coronavirus

Laboratory Name: ALG Labs

Project No: A29381 Date: 4/14/2020

Pathogen Tested: Human Coronavirus,

ATCC VR-740, Strain 229E



Objective:

Testing was conducted on GPS' technology to assess its ability to inactivate Human Coronavirus on a glass surface.

Methodology:

A glass carrier with the pathogen was placed 1" from the carbon fiber brushes of the GPS technology. The petri dish carriers were exposed to GPS' needlepoint bipolar ionization device for 1 minutes, 5 minutes, 15 minutes, 30 minutes and 60 minutes at room temperature and relative humidity. Following the exposure time, the carrier was removed and an aliquot of test medium was added to the petri dish.

Experimental Results:

A 90.0% average reduction in viral titer was demonstrated following a 60 minutes of exposure time, as compared to the average titer of the dried virus control. The reduction in viral titler was 1.00 log.





Legionella

Laboratory Name: EMSL Analytical, Inc.

EMSL No: 151508127 **Date:** 10/14/2015

Pathogen Tested: Legionella pneumophila



Objective:

Testing was conducted on the GPS-2400 model to assess its ability to inactivate bacteria on a solid surface.

Methodology:

Legionella pneumonphila (L. pneumophila) was inoculated onto buffered charcoal yeast extract agar (BCYE) and incubated at 35°C for 48 hours. Colonies were harvested, suspended in phosphate buffer water, and vortexed for 1 minute to ensure homogenization. This suspension was then used to inoculate the test carriers.

Experimental Results:

The GPS-2400 system demonstrated the strongest efficacy after 30 minutes of exposure by inactivating 99.71% of the L. pneumophilae bacteria.





Clostridium Difficile

Laboratory Name: EMSL Analytical, Inc.

EMSL No: 371208933 **Date:** 6/26/2011

Pathogen Tested: Clostridium difficile ATCC 70057





Objective:

Objective: Testing was conducted on the GPS-iBAR-36 model to evaluate its effectiveness in disinfecting solid surfaces contaminated with C. Difficile.

Methodology:

The GPS-iBAR-36, needlepoint bipolar ionization system, was first set up facing down with 5 cm of clearance from the surface. The test carriers in their respective Petri-dishes were then placed under the GPS-IBAR-36 and the system was turned on. The control was not exposing to the ionizer and instead placed directly into 10 mL of PBS. Serial dilutions were then created for each carrier by taking 1mL out and placing it into the 9 mL of PBS. For each dilution 100µL was plated onto a TSAB plate. The inoculated plates were then incubated in anaerobic conditions at 37°C for 48 – 72 h. The colonies were counted and recorded.

Experimental Results:

In conclusion, the GPS-IBAR-36 demonstrated the ability to disinfect C. difficile on a solid surface with an observed percent reduction of 86.87% in 30 minutes.





Turberculosis

Laboratory Name: EMSL Analytical, Inc.

EMSL No: 371106420

Date: 7/15/2011

Pathogen Tested: Mycobacterium terrae ATCC 15755





Objective:

Testing was conducted on the GPS-iBAR-36 model to determine its ability to inactivate the bacteria in the air.

Methodology:

M. terrae first was innoculated on Tryptic Soy agar + 5% sheep blood (TSAB) and incubated at 35°C for 5 days under carbon dioxide conditions. A sterile inoculation loop was then used to collect colonies and place them into 5 mL of normal saline solution. Once testing was ready to begin, 60 psi of compressed air was pumped through the nebulizer, creating the release of 10.8 mL/h of aerosolized solution. This was run for 28 minutes, allowing for a total of 5 mL of solution being aerosolized into the test chamber.

Experimental Results:

After correcting for the natural rate of decay it was observed that there was a 0.38 log reduction after 30 minutes of exposure and a 0.51 log reduction after 60 minutes of exposure. In conclusion, the GPS-IBAR-36 was observed to reduce M. Terrae by 69.09%

TIME IN CHAMBER 60 RATE OF REDUCTION 69.0%



MRSA

Laboratory Name: EMSL Analytical, Inc.

EMSL No: 371106420 **Date:** 6/13/2011

Pathogen Tested: Methicillin Resistant Staphylococcus

aureus (MRSA) ATCC 33591





Objective:

Testing was conducted on the GPS-iBAR-36 model to determine its ability to inactivate the bacteria in the air.

Methodology:

The nebulizer was connected to an air compressor with 1/4 inch plastic tubing and to the environmental test chamber through one of the testing openings created. The fan was turned on to create an air flow in the chamber but the ionizers were not turned on until after the initial sampling. Once testing was ready to begin, 60 psi of compressed air was pumped through the nebulizer creating the release of 10.8 mL/h of aerosolized solution. This was run for 28 minutes, allowing for a total of 5 mL of solution to be aerosolized into the test chamber.

Experimental Results:

In conclusion, the GPS-IBAR-36 demonstrated the ability to disinfect MRSA from the air with a 96.24% reduction after 30 minutes of exposure.

TIME IN CHAMBER 30 MINUTES RATE OF REDUCTION 92.2%



E. Coli

Laboratory Name: EMSL Analytical, Inc.

EMSL No: 371106420

Date: 7/21/2011

Pathogen Tested: Escherichia coli ATCC 8739





Objective:

Testing was conducted on the GPS-iBAR-36 model to determine its ability to inactivate the bacteria in the air.

Methodology:

The nebulizer was connected to an air compressor with 1/4 inch plastic tubing and to the environmental test chamber through one of the testing openings created. The fan was turned on to create an air flow in the chamber but the ionizers were not turned on until after the initial sampling. Once testing was ready to begin, 60 psi of compressed air was pumped through the nebulizer creating the release of 10.8 mL/h of aerosolized solution. This was run for 28 minutes allowing for a total of 5 mL of solution to be aerosolized into the test chamber.

Experimental Results:

In conclusion, the GPS-IBAR-36 demonstrated the ability to disinfect E. coli from the air with a 99.54% reduction after 30 minutes of exposure and a 99.23% reduction after 60 minutes of exposure.

Furthermore, these results demonstrate that the needlepoint bipolar ionization system tested does not require direct line of sight to produce inactivation rates comparable to those of ultraviolet light. The needlepoint bipolar ionization system's inactivation rates are indicative of those in the entire space.

TIME IN CHAMBER 15 PAGE 15 PAG

Independent Laboratory Testing Results Summary



PATHOGEN	TIME IN CHAMBER	RATE OF REDUCTION	TESTING LAB
SARS-CoV-2	30 MINUTES	99.4%	INNOVATIVE BICANALYSIS outer latered primary manus
Norovirus*	30 MINUTES	93.5%	ATS LABS EXCELLENCE IN ANTIMICROBIAL TESTING
Human Coronavirus**	60 MINUTES	90.0%	ALG LÃB GROUP
Legionella	30 MINUTES	99.7%	EMSL
Clostridium Difficile	30 MINUTES	86.8%	EMSL
Tuberculosis	60 MINUTES	69.0 %	EMSL
MRSA	30 MINUTES	96.2%	EMSL
Staphylococcus	30 MINUTES	96.2%	EMSL
E. Coli	15 MINUTES	99.6%	EMSL

^{*} Surrogate for Norovirus, actual strain tested was Feline Calicivirus, ATCC VR-782, Strain F-9
** Surrogate for Human Coronavirus SARS-CoV-2, actual strain tested was Human Coronavirus 229E



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NOTICE OF HEARING UPON APPLICATION FOR LICENSE TRANSFERS OUTSIDE OF **MUNICIPALITIES**

NOTICE IS HEREBY GIVEN THAT the Fall River Board of County Commissioners in and for the County of Fall River, South Dakota, on the 16th day of September, 2020; at the hour of 9:25 a.m. will meet in regular session to consider the following License Transfers: SD Farm Wine License Transfer for 2020/2021 licensing period and Liquor License Transfer for 2020 licensing period to operate within the County of Fall River, South Dakota, which have been presented to the governing body and filed with the County Auditor's Office.

TRANSFERS:

TTT Taverns, LLC TO 13393 Lake Vista Dr. **Hot Springs, SD 57747** (On/Off Sale Malt Beverage & SD Farm Wine

Pirate's Pub & Convenience Store

13393 Lake Vista Dr. Hot Springs, SD 57747

(On/Off Sale Malt Beverage & SD Farm Wine

and Liquor License) and Liquor License)

NOTICE IS FURTHER GIVEN THAT any person, persons or their attorney may appear at said scheduled public hearing and present objections, if any objections there be.

Dated this 1st day of September, 2020 at Hot Springs, South Dakota.

Sue Ganje **County Auditor Fall River County**

FALL RIVER COUNTY

2021-2025 Five Year County Highway and bridge improvement Plan



CERTIFICATION FORM

Certification: As approved this day of	. 2020
Fall River County Commission	, = 0 = 0
By:	
County Commission Chairperson	
Attest:	
County Auditor or Clerk	
County Contact Person: <u>Randy Seiler – Highway</u>	Superintendant
Phone Number: 605-745-5137	
Email Address: <u>frchwydept@gwtc.net</u>	
Received by SDDOT on	
Approved by SDDOT on	

CHECKLIST OF REQUIREMENTS FOR ANNUAL UPDATE

X_	Certification Form
X	Projected Revenue Available per year
X	_5-year Project List (Programmed Projects)
X	_Project Status List
X	_Affidavit of publication of public meeting notice (copy of the notice or article alone, is not sufficient)
X	_Township coordination letters/notice (sample letter and mailing list is acceptable)
X	_Attendance list from public meeting (all attendees – not just commission members)
X	Public Comments (if no comments are received, clearly indicate that in the plan
	submittal) See Meeting Minutes

06/28/2018

REVENUES AND PROGRAM

PROJECT STATUS LIST

Project Location	Annual Listing of Programmed Projects Project Description	Year	Status
4 E & 8 N of Edgemont	STIP Bridge Replacement for Structure 24- 162-102 over Mickelson Trail	2021	Awaiting Bid Letting Authorization in DOT
SD471 Provo to Igloo, Remove Bridges and Obliterate Old State Highway 298	Grading, Gravel Surfacing, Box Culvert, Obliteration of Bridges and Roadway	I	Design 95% Complete - SDDOT in Process of ROW Negotiations. SDDOT 2018 Cost Estimate is \$2.5M. Current SDDOT Funding Agreement with County has the State Funding Share Capped at \$1.1M resulting in Fall River County responsible for the remaining \$1.4M. SDDOT has indicated ROW Process could Delay Project
County Wide	Graveling	2021 - 2025	No Change
1.1 W & 0.3 S of Burdock	2019 BIG-Replacement (Construction Phase)	2022	No Change
0.8 S & 0.2 E of Oelrichs	Structure 24-419-212	l .	Change Date due to SDDOT delays on other projects and unknown County Project Cost Share
County Road 1 ~ 4 miles (Cost Share with State Parks)	Asphalt Surface Treatment and Fog Seal	2022	No Change
County Road 2A ~ 2.5 Miles (Cost Share with State Parks)	Asphalt Surface Treatment and Fog Seal	2022	No Change
County Road 6291 ~ 8.5 Miles	Asphalt Surface Treatment and Fog Seal	2022	No Change

2020 Page 1 of 1

TIVE-YEAR PROGRAMMED PROJECT LISTING

Desired and			Proposed Five-Yea Information (in the			
Project Location	Project Description	Year	Local Funding	Federal Funding	State Funding	
4 E & 8 N of Edgemont	STIP Bridge Replacement for Structure 24-162-102 over Mickelson Trail (Construction)	2021	294	1,176		
County Wide	Graveling	2021	400			
SD471 Provo to Igloo, Remove Bridges and Obliterate Old State Highway 298	Grading, Gravel Surfacing, Box Culvert, Obliteration of Bridges and Roadway	2022			#2,500	
County Wide	Graveling	2022	400			
1.1 W & 0.3 S of Burdock	2019 BIG-Replacement 24-020-020	2022	237		950	
County Wide	Graveling	2023	400			
County Road 1 ~ 4 miles (Cost Share with State Parks)	Asphalt Surface Treatment and Fog Seal	2022	40		*120	
County Road 2A ~ 2.5 Miles (Cost Share with State Parks)	Asphalt Surface Treatment and Fog Seal	2022	50		*50	
County Road 6291 ~ 8.5 Miles	Asphalt Surface Treatment and Fog Seal	2022	170		*170	
0.8 S & 0.2 E of Oelrichs	Structure 24-419-212	2023	350			
County Wide	Graveling	2024	400			
County Wide	Graveling	2025	400			

Requires STATE/COUNTY PROJECT FUNDING AGREEMENT to be Amended. If not amended the STATE Project Funding Obligation is Capped at \$1.1M

SDGF&P Cost-Share Anticipated

ocal Funding Includes: Match on BIG funding, traditional BRO & BRF projects, TAP projects, etc., and some shortfalls/balances on misc. projects. Also STP Payout funds. ederal Funding Includes: 100% of Signing & Delineation projects, and approx. 80% of STP, BRO, BRF, and TAP projects. Federal portion of ER/FEMA projects.

tate Funding Includes: 80% of awarded BIG projects, approx. 60% of Pavement Marking projects, and approx. 20% match on STP projects.

nticipated Grant (BIG): 80% of total

Tegravel with Asphalt milings 170

2020

REVENUE SOURCES TABLE (Show amounts in thousands of dollars)

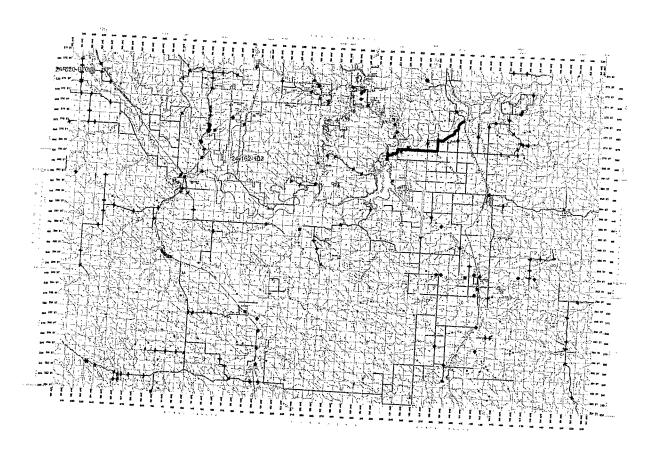
Account Description	2020	<u>2021</u>	2022	2023	2024	2025
Local Funds						
General Funds-property tax	255	255	255	255	255	255
Motor Vehicle Licenses	877	877	877	877	877	877
Wheel Tax	105	105	105	105	105	105
Annual STP Payout Funds	238	238	238	238	238	238
2019 HIP Funds		222				
Intergovernmental Funds						
Township Services						
State Funds						
PE - BIG (planning to apply for)						
PE - BIG (awarded by DOT)						
Preservation - BIG (planning to apply						
for)						
Preservation - BIG (awarded by DOT)						
Rehab/Repl - BIG (planning to apply for) *Design Phase, **Const. Phase		***************************************				
Rehab/Repl - BIG (awarded by DOT)			950			
Other (Match on STP Projects, Pavement Marking Prj.) *Igloo Bridges, **Chilson Bridge, #SDGF&P Cost-Share			*2,840			
Federal Funds						
TAP						
ER/FEMA						
OTHER (STP, Bridge, Signing, Hazard Elimination, SIB Loans) *Igloo Bridges,		**1,176				
TOTAL	1,475	2,873	5,265	1,475	1,475	1,475

Note:

- For State and Federal Funds, only enter the applicable amount (i.e. 80% of total project cost).
- Include both BIG funds awarded and BIG funds that will be applied for but not yet received.

MAPS

2021-2025 FALL RIVER COUNTY 5 YEAR ROAD PLAN





2022 Replacement

2022 Grading Project
2022 Chip Seal Project





SHEET DESCRIPTION: 2021-2025 PROJECTS

COUNTY: FALL RIVER

PUBLIC INPUT

Notice of Public Information meeting for Fall River County Master Transportation Plan

Fall River County Courtroom

906 N. River St., Hot Springs, SD 57747

Date: September 16, 2020

Time: 9:30 a.m. to 9:45 a.m.

Notice is given that Fall River County will hold a public hearing to discuss and receive public input on the development of a Master Transportation plan for the county.

A map and proposed plan will be available for review at the hearing and you will have the opportunity to present written comment. A short presentation will be given at approximately 9:30 a.m. and the hearing will then be opened to questions and comments on the transportation issues in Fall River County.

Notice is further given to individuals with disabilities that this hearing is being held in a physically accessible place. Any individuals with disabilities who will require reasonable accommodation in order to participate in the public hearing should contact the county auditor at 605-745-5130 no later than 2 business days prior to the meeting in order to ensure accommodations are available. In the event you are unable to attend the hearing, and wish to offer comment, those can be sent to the county auditor at 906 N River Street, Hot Springs, SD 57747, or email to Sue.Ganje@state.sd.us. For further information regarding the hearing please contact Randy Seiler, Highway Superintendent at 605-745-5137 or by email to frchwydept@gwtc.net.

Dated this 25th day of August, 2020.

Sue Ganje, County Auditor



2/2/2020 2/2/2020

FAXED BID:

TO: FALL RIVER COUNTY HIGHWAY DEPT. FAX # 745-5912 PHONE # 745-5137

DATE:

9-2-2020

FROM: Nelsons Oil & Gas, Inc. PHONE:

BID FOR:

gallons.

(won't

AMOUNT OF BID:_ (This bid includes all appropriate taxes and fees)

Richard Nolson

Note all faxed bids must be received in the Fall River County Highway Department at the about manaber testing 7 00 u.m. to be considered, testing otherwise stated by the caller for bids.

If declining to bid please fax back this form with the words; "Decline todays bid." On the line designated for the Bid Amount.

Thank You

FAXED BID:

TO: FALL RIVER COUNTY HIGHWAY DEPT.

FAX # 745-5912

PHONE # 745-5137

DATE: 9/2/2020		
FROM: HI-D-WAY	 PHONE:	890-1010
BID FOR: 8000 GAL #2DSL		
AMOUNT OF BID: NO BID - NOT	PLACING	- TANKER ORDERS
(THIS BID INCLUDES <u>ALL</u> APPRO		
Signed By: BILL TANNEL BY P	HONC	
	kn	

NOTE: all faxed bids must be received in the Fall River County Highway Dept. office at the above number **before** 9:00 a.m. to be considered, unless otherwise stated by the caller for bids.

If declining to bid please fax back this form with the words; "Decline todays bid" on the line designated for the Bid Amount.

THANK YOU

Subject [FOUND FIN TERM]RE: Seeking bids on 8000 gal dyed #2 Diesel

From Mike Kulish <mkulish@MGOIL.com>

To hwyofficemgr@gwtc.net <hwyofficemgr@gwtc.net>, Dispatch <dispatch@MGOIL.com>

Date 2020-09-02 08:39

MG Oil will not bid at this time.

Thank you

Mike

----Original Message----

From: hwyofficemgr@gwtc.net>

Sent: Wednesday, September 2, 2020 7:35 AM

To: Dispatch < dispatch@MGOIL.com >

Subject: Seeking bids on 8000 gal dyed #2 Diesel

Importance: High

Seeking bids on 8000 gal dyed #2 Diesel, to be delivered to Fall River County HWY Shop at 27518 Cascade Rd, Hot Springs, SD.

Please respond by 9 AM today.

Ken Martin,

FRC HWY Dept Office MGR

Confidentiality Notice: This email message, including any attachments, is for the sole use of the intended recipients and may contain confidential and privileged information. Any unauthorized review, use, disclosure or distribution is prohibited. If you are not the intended recipient, please contact the sender by reply email and destroy all copies of the original message and any attachment(s). Thank you.

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HOT SPRINGS, SOUTH DAKOTA 57747

FALL RIVER COUNTY, SOUTH DAKOTA

Name of Claimant: Fall River County Highway Department

P.O. Box 939

Hot Springs, S.D. 57747

Date: 09-09-2020	
WEED BOARD FUEL PURCHASES:	
FROM DATE: 08-01-2020	
THROUGH DATE: 08-31-2020	
GALLONS: 297.60	
TOTAL: \$ 435.86	

HOT SPRINGS, SOUTH DAKOTA 57747 FALL RIVER COUNTY, SOUTH DAKOTA

Name of Claimant: Fall River County Highway Department

P.O. Box 939

Hot Springs, S.D. 57747

Date: 09-09-2020	
SHERIFF'S DEPARTMENT GAS PURCHASES:	
FROM DATE: 08-01-2020	
THROUGH DATE: 08-31-2020	
TOTAL GALLONS: 1177.60	
TOTAL: \$ 1724.68	

HOT SPRINGS, SOUTH DAKOTA 57747

FALL RIVER COUNTY, SOUTH DAKOTA

Name of Claimant: Fall River County Highway Department

P.O. Box 939

Hot Springs, S.D. 57747

Date: 09-09-2020
COURT HOUSEFUEL/GAS PURCHASES :
(All Departments)
FROM DATE: 08-01-2020
THROUGH DATE: 08-31-2020
GALLONS: 113.80
TOTAL: \$ 166.67

County asked to provide loan documentation

\$115,000 paid to bank in July; no paperwork to explain payoff

Staff Reports

Members of the Greater irst Western Bank and the 'all River Health Services GFRHS), a representative of tates Attorney met with the ounty commissioners last uesday regarding the loan uaranteed by the county to FRHS last year that, le commissioners paid

that time. After some discussion the bank agreed to give GFRHS a six month extension. The bank requested payment from the county after the July 1st, 2000 deadline. The commissioners included the \$115,000 payoff amount in their July 5 list of bills.

Tuesday's meeting to ask fication was for paying this \$115,000 loan off. what the commissioners' justi-

demand for the loan to be paid "There was never any off," said Ginsbach.

"There was never any demand admitted that the deal Ginsbach was concerned between GFRHS, First that there is no paper trail leading up to the loan

Western Bank and the commissioners was all

ecember 31, 1998, a - Fall River State's Attorney Pat Ginsbach commission of local people regarding loan to GFRHS guaranteed by county verbal. After the closure of for the loan to be paid off."

orked to open a 24 hour clin-The clinic began operation the State Veterans Home in b. of 1999. In March the unty commissioners voted to

rmed GFRHS, and

e emergency room on

ff in July.

In an article from the November 30, 1999 Star about Greater Fall River Health Noreen Petty said, "The Services' loan from the county, board member continue to work on closing out all the clinic accounts, and Greater Fall River Board will will make every effort to repay the amount guaranteed by the GFRHS

> GFRHS. The 24 hour clinic sed on November 11 of 1999

arantee a loan of \$150,000

Ginsbach, Attorney,

rst Western Bank went to 'RHS in December of 1999 out paying off the loan at

According to bank reprentative Časey Derflinger,

e to cash flow problems.

Ginsbach told the commissioners that letters ing that GFRHS was in default of the loan and why. were needed for the files stat-These letters should support the loan payoff by the county. "No one's at fault here,"

The commissioners need they could be held responsible his paper trail. Without it, our paper trail in order."

Heimbuck. "We need to get

commissioner

Page 10A, HOT SPRINGS STAR, Tuesday, November 2



Loan

from Pg. 1A

when the Legislative Auditor audits the coun-

ty in two years.
Greater Fall River Health Services clinic was under a 501(C)3 non-profit corporation status. When they took over the nursing home a different 501(C)3 was needed, but it takes tion account. So GFRHS used the same seven months to get a new non-profit corpora-501(C)3 status for the nursing home that they used for the clinic.

According to the November 30, 1999 Star clinic and the nursing home separate, Petty article, "To keep the business of the now closed says that separate checking and saving accounts have been established for the nurs-

Pat Ginsbach

ing home and assisted living so that there will not be any ques tion about money owed by the clinic being paid by pledges to th nursing home."

options: 1. Have GFRHS pay back this money or 2. Forgive the loan. The commissioners must pass a resolution about either o Ginsbach informed the commissioners that they have two

Commissioners vote to keep loan issue ali

Legislative Audit office finds July loan payoff done correctly

Linda McElroy

What was originally scheduled for a 15 minute block of time at the county commissioners meeting last Tuesday, December 19, to discuss a decision on a resolution pertaining to Greater Fall River Health Services, turned into an hourlong diatribe by members of the public about a loan payoff earlier this year by the commissioners. The discussion degenerated at times into personal attacks before being halted by Heimbuck. Commissioner

The session ended with motions by Commissioner Mines to leave the matter for the incoming commissioners, and to enter into discussions with the Greater Fall River Health Services Board to restructure the debt.

After the closure of the ER on Dec. 31, 1998, a group of local people, calling themselves Greater Fall River Health Services, worked to open a 24hour clinic. The clinic began operation at the State Veterans Home in February of 1999. In March, the commissioners voted to guarantee a loan of \$150,000 through Western Bank to GFRHS. The 24-hour clinic closed on November 11, 1999 due to cash flow problems.

First Western Bank went to Greater Fall River in December of 1999 about paying off the loan. After some discussion, the bank agreed to give them a six month extension, the bank requested payment from the county. The commissioners included the \$115,000

payoff amount in their July 5 list of bills.

Commissioner Mines informed those present at last Tuesday's meeting that she had spoken with the Legislative Audit office in Pierre, and was assured that they had, at her request, investigated the matter, and that as far as they were concerned, the actions of the commissioners were correct, and that no further action was necessary. State's Attorney

private non-profit corporation," he explained. "Nobody had any legal right to (do that)."

"Nobody knows where it's going," Healey stated.

"You know where it went," Lux replied. "It went to provide health services."

The issue of the hospital tax district vote was discussed. It was pointed out that the loan guarantee had nothing to do with the hospital, but that

meantn Services) The money gone, but I do not believe th commission should walk awa It's spitting in the eye of tl taxpayer. The taxpayer spol loud and clear."

Some present suggested repayment plan be worked o with GFR. "One of the issu GFRHS should be looking at their image," comments Dusty Pence.

"There is no repayment plathat can be devised," stat Lux. "There is no monthere."

Rich Olstad pointed out th the commissioners guarante the loan after 2 or 3 pub meetings, during which the was "overwhelming suppor He also reminded those pr sent that when the Govern gave the \$150,000 grant to nursing home, the stipulat was that it be handled by non-profit corporation wi 501 (C)3 status. Since t application process for th status takes seven months a: GFRHS already had the st tus, that 501(C)3 license w used. The existence of t nursing home and assisted t ing have contributed to t economy of the county, he sa with a \$1 million-plus payr and \$2 million for goods a services. "The commissions decided to make the loan,' said. "The commissions should decide what to do."

The issue of collateral w discussed. "Everything th there was, no longer is," L stated. "If you sell the curre assets off, you doom curre operations."

"When the county was fir approached, we got petitio from people who didn't we us to touch this with a 10-fc pole," said commission Mines. "We co-signed a no but we were not naive. My c teria was - yes, this is taxp: er money, but the repayment the \$150,000 wouldn't result an increase in the mil levy. the time, the clinic seemed li the way to provide our comn nity with health care. I agi that the taxpayers said th don't want a tax. We're confronted with the sa extreme emergency. What bought was time to get fr there to here. It was a decis we made in the interest of community.'

"What we bought was time to get from there to here. It was a decision we made in the interest of the community."

-Linda Mines - Fall River County Commissioner

Pat Ginsbach had met with commissioners in November and told them that further paperwork was necessary to cover them for the audit.

Attorney for Greater Fall River Health Services, Joe Lux, went through the sequence of events leading to the loan payoff. "The county decided to guarantee this loan as a matter of good public policy," he said. "In June of this year it was still good public policy."

Lux explained that there is no more money to be had from the 24-hour clinic. "Greater Fall River has given everything it has," he said. The amount, he said, comes to \$7 per person in the county over the last year and a half.

County resident Dan Healey asked about taxpayer ability to examine the books of GFRHS, since the loan payoff was made with tax money.

"It's the same as any other

keeping the clinic afloat directly impacted on the eventual ability of Greater Fall River to purchase and run the nursing home, and look into reopening the hospital. "Would the hospital have been possible without county funds?" asked Lux.

"This is simply a tax issue."
John Pence stated. "The people of this county voted against a tax. This is not a pro-hospital or anti-hospital scenario. People voted against a tax." The commissioners levied a tax." Pence was in favor of letting the incoming county commissioners decide what to do.

Commissioner-elect Mike Ortner agreed. "It seems clear there were two candidates for County Commissioner (elected) in this election," he said. "The Chairman (Erv Heimbuck) has a conflict of interest from the start. (Meaning Heimbuck was on the board of Greater Fall River

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