



TOWN BOARD WORK SESSION

January 27, 2020 - 6:00 PM

Town Board Chambers, 301 Walnut Street, Windsor, CO 80550

GOAL of this Work Session is to have the Town Board receive information on topics of Town business from the Town Manager, Town Attorney and Town staff in order to exchange ideas and opinions regarding these topics.

Members of the Public in attendance are asked to be recognized by the Mayor before participating in any discussions of the Town Board

AGENDA

1. Meet The Board - New Employees
2. Air Quality Monitoring Discussion
3. Future Meetings Agenda

The Town of Windsor will make reasonable accommodations for access to Town services, programs, and activities and will make special communication arrangements for persons with disabilities. Please call (970) 674-2400 by noon on the Thursday prior to the meeting to make arrangements.



MEMORANDUM

Date: January 27, 2020
To: Mayor and Town Board
Via: Shane Hale, Town Manager
From: Brad Sorenson
Re: Meet The Board - New Employees
Item #: 1.

Background / Discussion:

Last Name	First Name	Title	DOH	Supervisor
Perry	David	Police Officer	1/20/2020	Chief Rick Klimek
Stanfill	Margaret	CSO	1/20/2020	Chief Rick Klimek
Worden	John	Police Officer	1/20/2020	Chief Rick Klimek
Pearson	Scott	Civil Engineer	1/20/2020	John Thornhill

Financial Impact:



MEMORANDUM

Date: January 27, 2020
To: Mayor and Town Board
Via: Shane Hale, Town Manager
From: Scott Ballstadt, Director of Planning
Re: Air Quality Monitoring Discussion
Item #: 2.

Background / Discussion:

Please see attached memo and presentation materials.

ATTACHMENTS:

- ▢ Memo regarding Air Quality Monitoring Discussion
- ▢ Extraction Oil & Gas air quality monitoring info
- ▢ Mountain Secure Systems Sales Presentation



MEMORANDUM

Date: January 27, 2020
To: Mayor and Town Board
From: Scott Ballstadt, Director of Planning
Re: Air Quality Monitoring Discussion

Background / Discussion

This is a follow up to the November 25, 2019 work session regarding air quality monitoring pertaining to oil and gas development.

Since the industry representatives from Great Western Oil and Gas and Extraction Oil and Gas were not able to participate in that meeting due to the snowstorm, Town Board scheduled this work session to continue the discussion, specifically to allow Great Western and Extraction to present information regarding their respective air quality monitoring efforts. The following individuals will be available to present their respective information:

- Susan Fakharzadeh, Director of Corporate Affairs, Great Western Oil and Gas, will provide an overview of air quality monitoring efforts that Great Western is undertaking at their oil and gas locations.
- Extraction Oil & Gas
 - Kelli Cox will provide an overview of the third-party air quality monitoring that Extraction is conducting at their oil and gas sites.
 - Tami McMullin, PhD, Senior Toxicologist, will also present on behalf of Extraction. She has over 13 years of multi-disciplinary experience providing scientific and risk communication solutions to complex health risk challenges in the private and public sectors. Her areas of expertise include public health and regulatory toxicology and risk assessment, product safety assessments, pharmacokinetics, in silico toxicology, neuroendocrine toxicology, biomonitoring, and environmental risk assessment. For over a decade, Dr. McMullin worked as a regulatory and consulting toxicologist in the chemical industry, where she provided consultation on the safety of a diverse portfolio of industrial and agricultural chemicals, personal care products and medical devices. During her tenure as the state toxicologist for Colorado, Dr. McMullin led teams to evaluate health risks related to chemical exposures for a variety of issues, such as superfund waste sites, brownfields, and oil and gas exploration and development. More recently, Dr. McMullin's practice has focused on assessing health risks related to community-based exposure in the oil and gas sector. She has served as a national expert to companies, governments and communities that seek to address public health concerns related to oil and gas exploration and development. Dr. McMullin also specializes in communicating technical health risk information to multiple stakeholders, including citizen community

groups, industry, and local public health agencies and policymakers. She has taught graduate level risk assessment courses at the Colorado School of Mines and is a peer reviewer of many technical publications.

- David Butler with Mountain Secure Systems will be presenting the attached related information.

Attachments

Presentation materials

cc:

Susan Fakharzadeh, Great Western Oil and Gas

Kelli Cox and Patty Varra, Extraction Oil & Gas

David Butler, Mountain Secure Systems

CLEARING THE AIR IN COLORADO

EXTRACTION'S BEST-IN-CLASS DEVELOPMENT: LEADING THE WAY

Extraction Oil & Gas is committed to safely and responsibly developing the energy we all use while protecting the air we breathe. We take our commitment seriously and have brought the most advanced and innovative facility designs to our development in Broomfield.

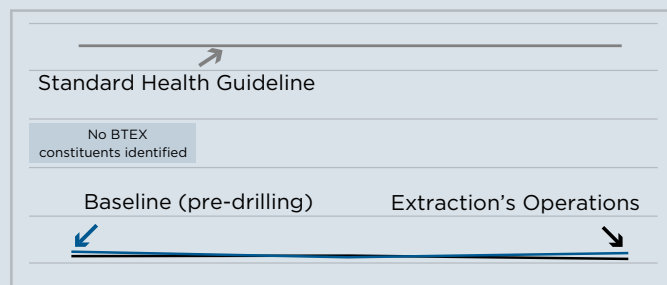
Extraction's tankless facilities, use of electric power during drilling and completions, and revolutionary flowback techniques are so advanced and air-tight that Colorado's own public health and environment regulator does not require Extraction have air permits for our Broomfield operations. We protect the air and science confirms it.

THREE RECENT STUDIES USING ACTUAL DATA FIND ZERO IMPACT ON BROOMFIELD'S AIR AND HEALTH



Each of the three studies, using actual data, found that Extraction's operations **do not result in local air quality changes** in the Broomfield community.

Colorado State University and Ajax Analytics teamed up to analyze data from 19 air monitoring stations throughout Broomfield, finding that emissions concentrations **"remained well below standard health guidelines."**



Colorado's Department of Public Health and Environment's (CDPHE) analysis of Broomfield's air quality found that air samples taken in the vicinity of Extraction's operations **"indicate a low risk of short-term and long-term harmful health effects."** The CDPHE's analysis is in line with its decision that Extraction does not need air permits since our operations are so air tight.



Air experts at consulting firm CTEH studied **15,000 total Broomfield air samples** during operations, finding that 98% of the measurements for volatile organic compounds (VOCs) were "non-detects," meaning the VOC concentrations were not present or were less than one part per billion. This detection limit is **"well below federal health guideline levels for short- and long-term adverse health effects."**

Extraction is proud of our track record of continually raising the bar when it comes to emissions reduction and elimination. Through our use of electric-powered drilling rigs, cutting-edge completions, revolutionary flowback practices and innovative tankless facility design that reduce emissions sources, we are safely and responsibly developing the energy Coloradans use every day.





MOUNTAIN
SECURE
SYSTEMS

RELIABLE PERFORMANCE WHEN IT COUNTS



RUGGED ELECTRONICS

Operating in the world's harshest and most dangerous environments.

Smoking Combustor Advanced Notification System (SCANS)



Extreme Temperature



Altitude



Humidity Condensation



Salt Fog



Shock & Vibration



Explosive Decompression

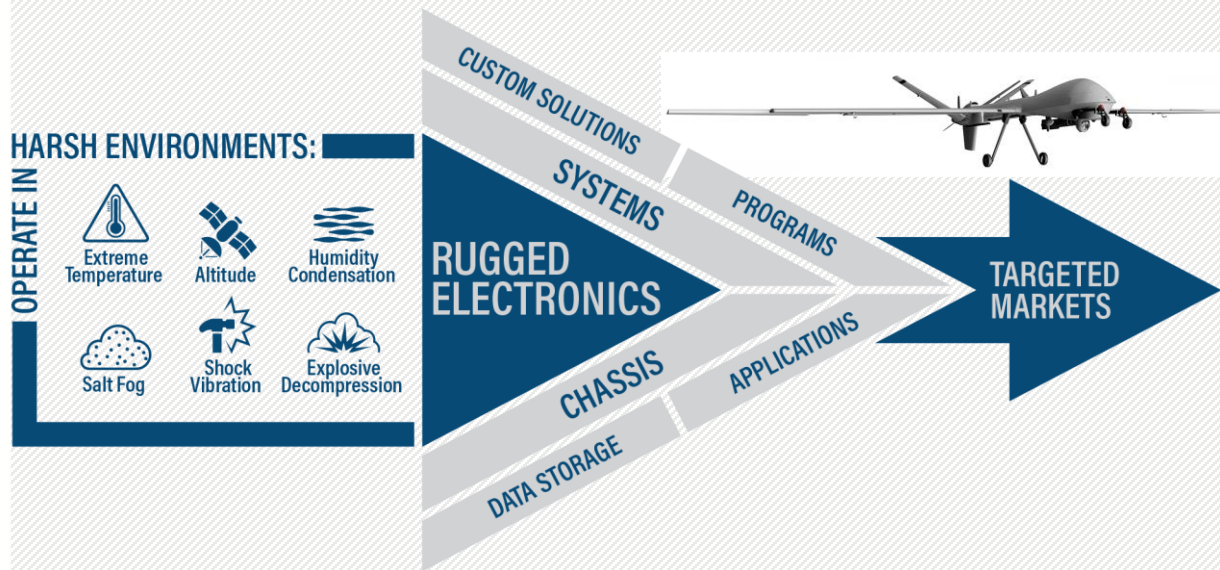


Who Are We

Mountain Secure Systems offers you reliable, American-made, rugged outdoor products with zero out-of-box failures.

- Founded 1985 in Boulder, Colorado
- Mountain Secure Systems is a leading supplier of Ruggedized Electronics for commercial, industrial, government and military markets.
- 30+ years (Military & Commercial) with over 25,000 units delivered. Many top supplier awards. Zero out-of-box failures.

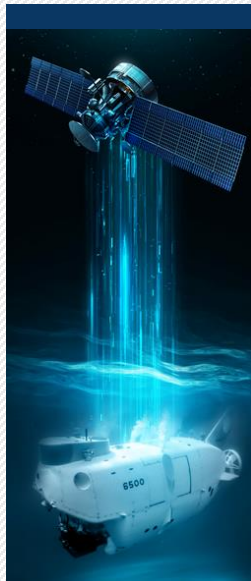
What We Do



Aerospace & Defense



Heavy Equipment



Harsh Environments



Harsh Environments



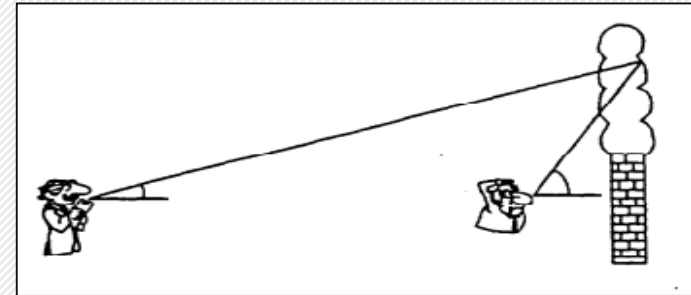
Aerospace & Defense



Heavy Equipment

Why Develop SCANS

- We want to support local companies and communities
- Oil and Gas Well Operators are fined for visible emissions (black smoke) from Emission Control Devices (ECDs)
- Black smoke is a sign of incomplete combustion
- Regulations and operators rely only on visual inspection of sites
- Well sites are unmanned and typically in remote locations
- Visual inspections are subjective and vary with lighting/weather/back-drop



(Visible Emissions Field Manual EPA Methods 9 and 22, December 1993)

Our Solution - SCANS



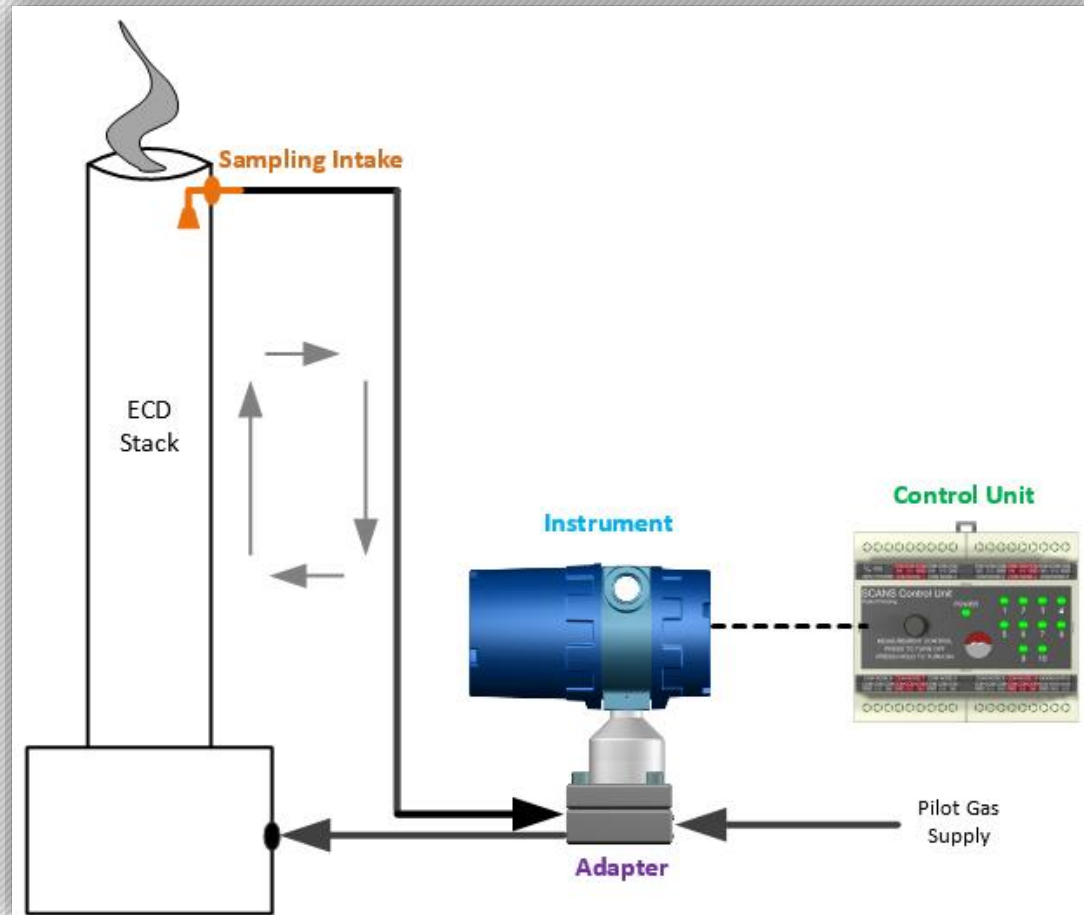
Our Solution - SCANS

Detects the presence or gives advance notice of visible emissions.

- Continuous Monitoring
- Automate Alerts and Responses
- Objective Measurements
- Patented Sampling System

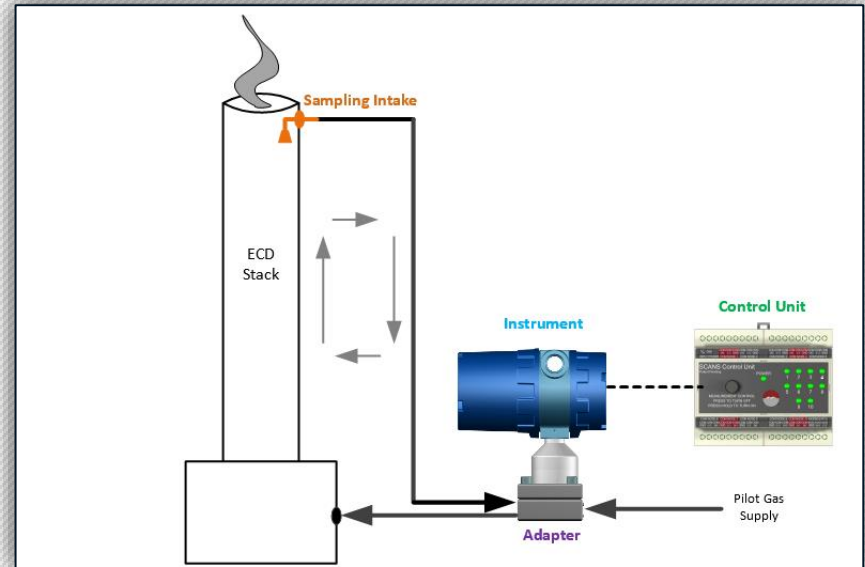


How Does It Work



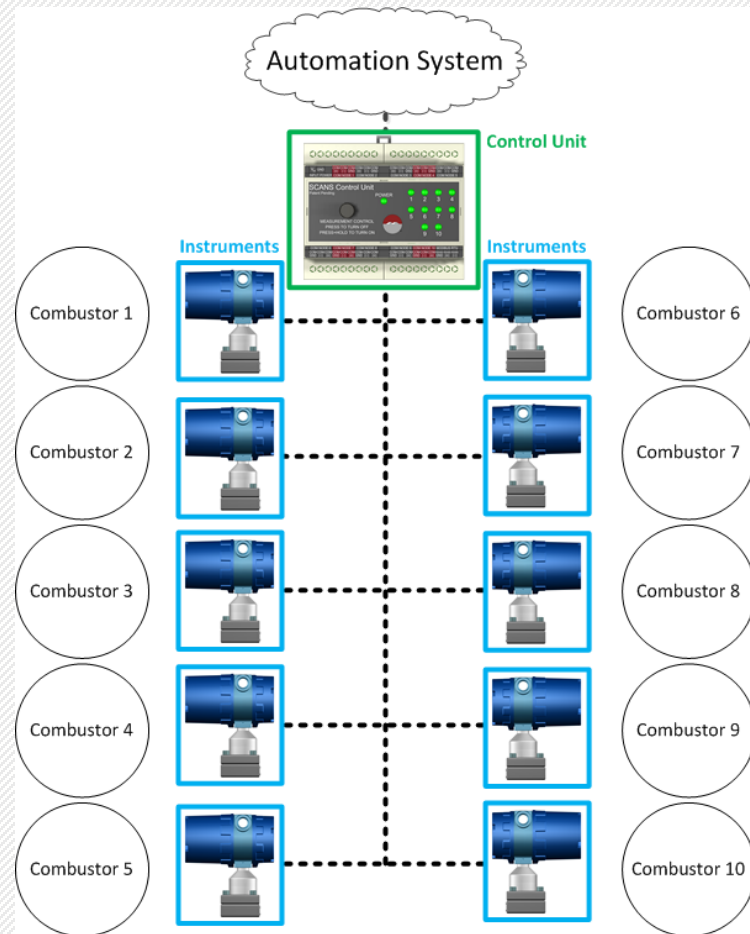
Advantages of SCANS

- Taps into exhaust stack via existing ports
- Generates sampling without moving parts or compressed air
- Removes electronics away from high temperatures
- No moving parts or compressed air system
- Directly measures soot levels in smoke.
- Recycles all gas back into ECD for combustion



Advantages of SCANS Cont'd

- Monitor up to 10 ECDs at once
- Reports to existing automation systems
- Independent mechanical and electrical installation
- Possible to integrate other sensors types



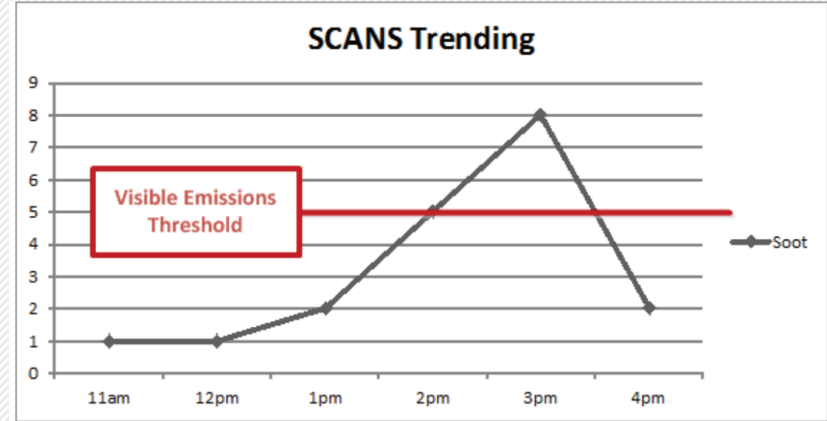
The Most Important Advantage – COST!

- Typical Continuous Emissions Monitoring Systems (CEMS) cost \$20K+ each!
- SCANS ~\$3K per ECD (1/6th the cost!)



Benefits and Opportunities

- Worry-free monitoring and alert system
- Effective and pro-active compliance
- Enhanced public relations
- Potential for Supplemental Environment Project (SEP)
- Affordable, value-added solution



Example - Trending SCANS Data

We Need Your Help!

What can we do to make this work for your organization?

- Have a “pilot” site in mind?
- Partners for installation
- Instrumentation Reps/Channels
- Product Features you’d like to see?

Contact Us

General Inquiry/Sales – David Butler dbutler@mountainss.com

Technical Inquiry – Mark Dixon mdixon@mountainss.com

Questions?

You can also visit:

<https://mountainsecuresystems.com/markets/gas-oil.php>

Check out our local news article!

<https://www.timescall.com/2018/12/26/longmont-firm-hopes-new-product-keeps-air-clean-prevents-fines-for-oil-and-gas-companies/>

Contact Us

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SCANS – Supplemental Slides



Extreme Temperature



Altitude



Humidity Condensation



Salt Fog



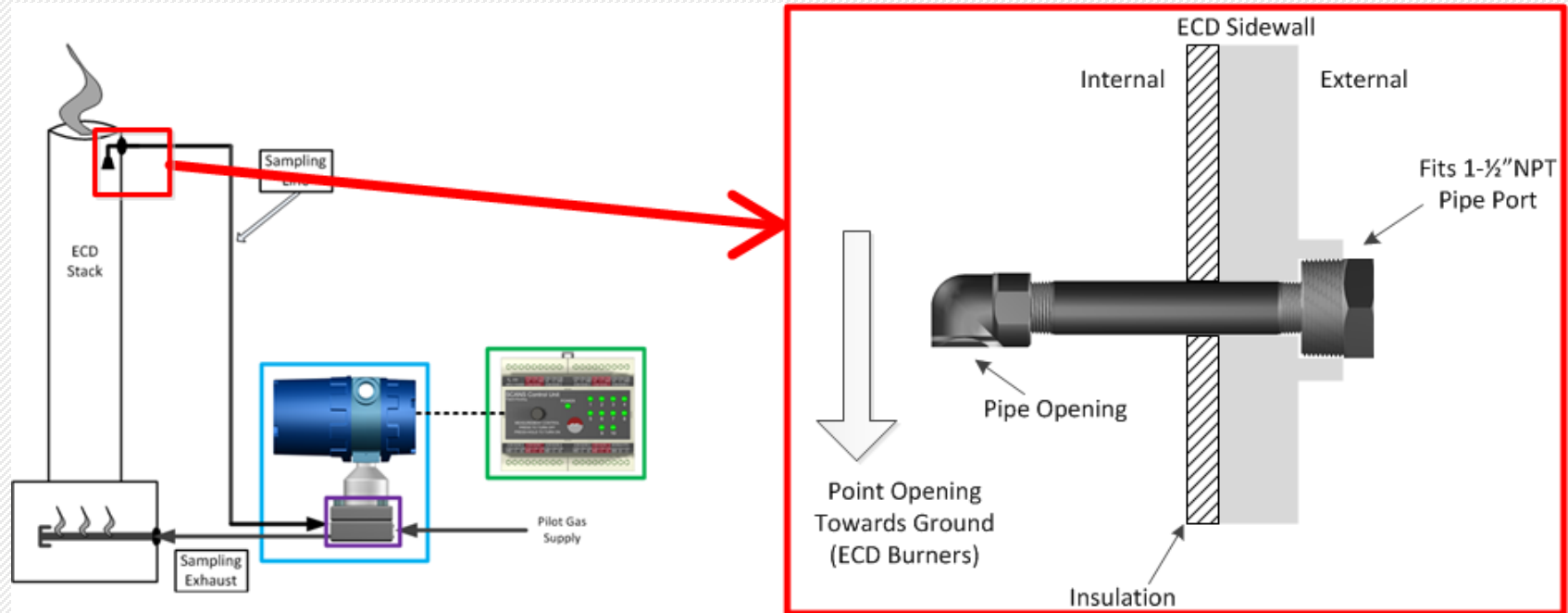
Shock & Vibration



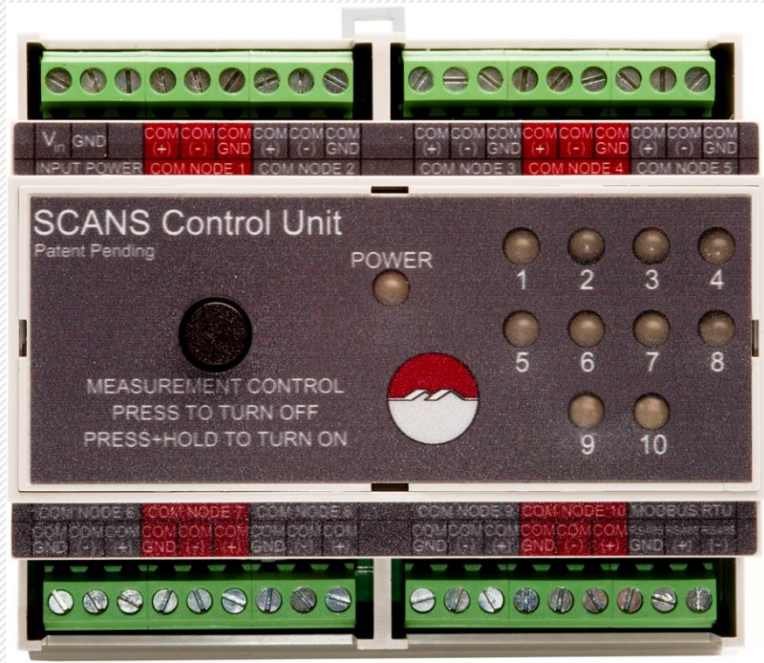
Explosive Decompression



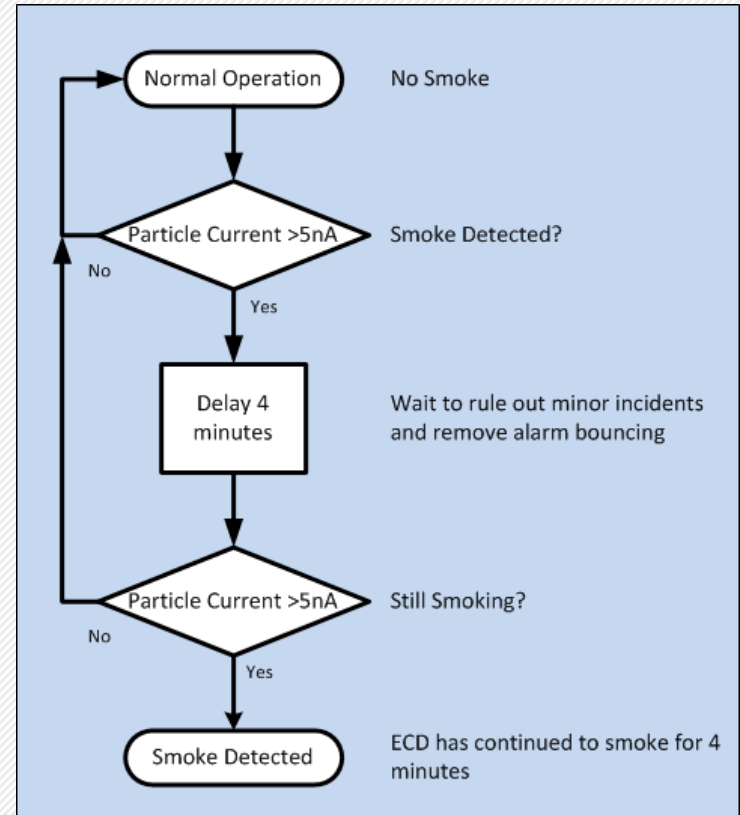
SCANS - Intake



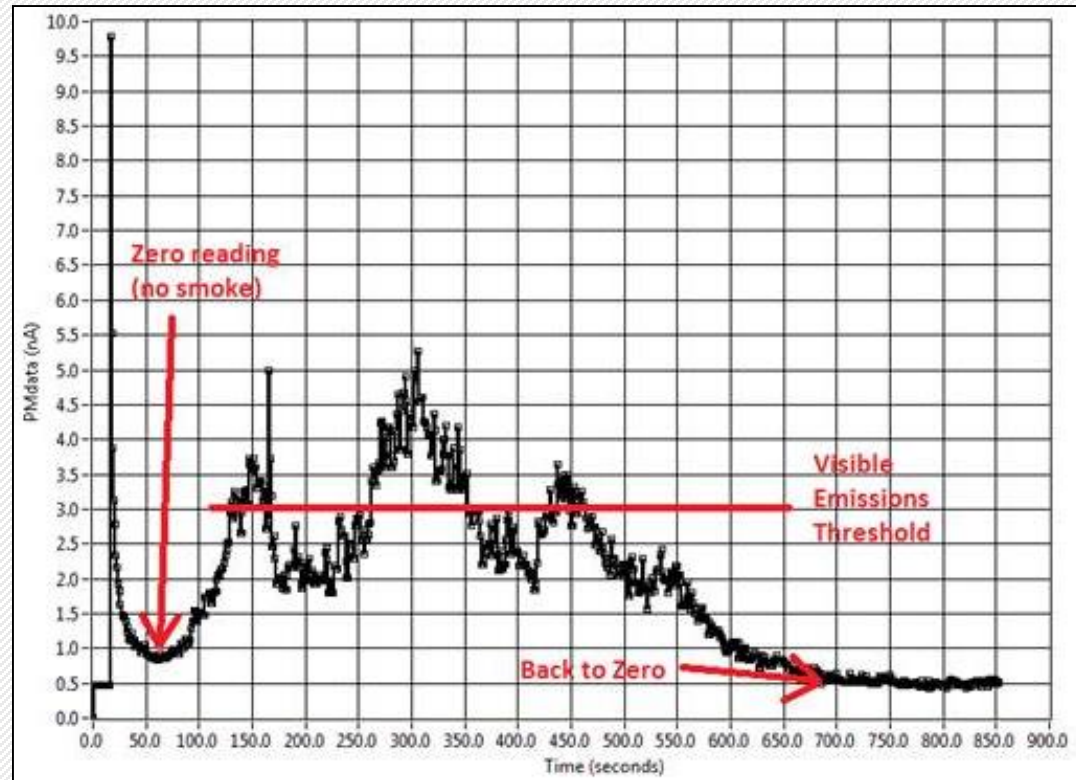
SCANS – Control Unit “Brains”



Example logic for RTU/PLC



Field Results





MEMORANDUM

Date: January 27, 2020
To: Mayor and Town Board
Via: Shane Hale, Town Manager
From: Krystal Eucker
Re: Future Meetings Agenda
Item #: 3.

ATTACHMENTS:

- ▢ Future Meetings Agenda



FUTURE TOWN BOARD MEETINGS

February 3, 2020 6:00 p.m.	Town Board Work Session Investment Process Overview Entertainment District Review Bulk Water Rate Discussion
February 10, 2020 5:30 p.m.	Town Board Work Session - Board/Manager/Attorney Monthly Meeting Youth Access to Nicotine Presentation with Larimer County Health and Environment Blue-Green Algae High School Presentation
February 12, 2020 5:30 p.m.	Town Board Special Meeting with Downtown Development Authority
February 10, 2020 7:00 p.m.	Town Board Regular Meeting
February 17, 2020 6:00 p.m.	Town Board Work Session – CANCELLED due to President's Day
February 24, 2020 6:00 p.m.	Town Board Work Session Transportation Master Plan
February 24, 2020 7:00 p.m.	Town Board Regular Meeting
March 2, 2020 6:00 p.m.	Town Board Work Session Parks, Recreation and Culture Strategic Plan Draft Presentation Oil and Gas Location Requirements
March 9, 2020 6:30 p.m.	Town Board Work Session - Board/Manager/Attorney Monthly Meeting (Some Town Board Members at NLC)
March 9, 2020 7:00 p.m.	Town Board Regular Meeting Kern Board (Some Town Board Members at NLC)
March 16, 2020 6:00 p.m.	Town Board Work Session Land Use Code Update
March 23, 2020 6:00 p.m.	Town Board Work Session
March 23, 2020 7:00 p.m.	Town Board Regular Meeting
March 30, 2020	No Meeting- Fifth Monday

Additional Events

February 15, 2020	Coffee with the Mayor, Community Recreation Center, 250 N. 11 th Street, Windsor, CO, 7:30-9:00a.m. – attending: Melendez, Bennett, Baker, Wilson, Rennemeyer
February 27, 2020	1 st Quarter Joint Regional Elected Officials Meeting, Windsor Public Works, 922 N. 15 th Street, Windsor, CO – attending: Rennemeyer, Jones, Wilson, Melendez
March 17, 2019	Candidate Forum hosted by the League of Women Voters, CRC, 250 11 th Street, Windsor, CO – attending:
March 26, 2020	Dessert and Dish, Windsor Lake Coffee, 430 Main Street, Windsor, CO 7:00-9:00 p.m. – attending: Melendez, Baker, Wilson, Rennemeyer
March 28, 2020	Coffee with the Mayor, Coffee House 29, 1039 Main Street, Windsor, CO, 7:30-9:00a.m. – attending: Melendez, Bennett, Baker, Wilson, Rennemeyer
May 5, 2020	Elected Official Training with Sam Light from CIRSA – Work Session
June 15, 2020	Joint Meeting with Town of Windsor, Town of Severance, Fire District and School District

Future Work Session Topics

- Land Use Code Update meeting with Planning Commission (next code section in series) – Planning
- Economic development/retail needs at 60,000 population
- Parks and Recreation Strategic Plan