

# WSCAC Meeting Agenda

January 25, 2018 MassDEP, Boston

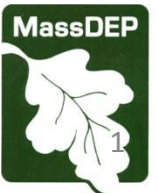
*Times are approximate*

9:30 Program Updates – Paul Locke

9:55 Natural Resource Damages standard method for oil spills to surface waters and regulation development – Karen Pelto & Scott Friedman, IEC

10:45 MCP amendments, AEPMM telemetry – Liz Callahan & Brian Roden

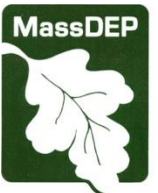
11:20 Federal Superfund Program and Status of MA Sites – Paul Craffey



# **Remote Telemetry for Active Exposure Pathway Mitigation Measures**

**Waste Site Cleanup Advisory Committee Meeting  
Thursday, January 25, 2018**

**Brian Roden  
MassDEP Bureau of Waste Site Cleanup  
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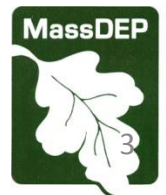


# Remote Telemetry Registrations – Status of Registered Systems – December 2017

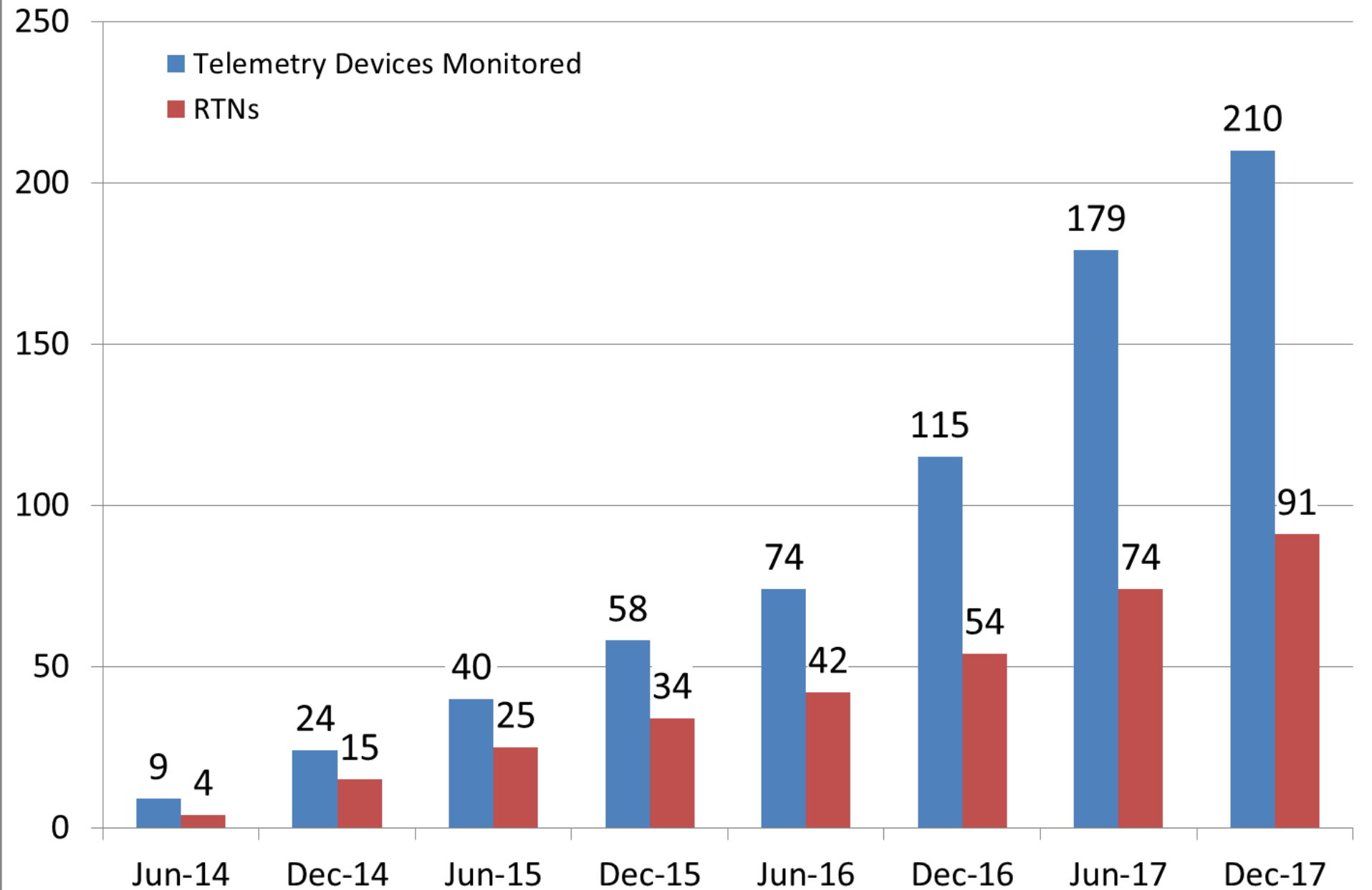
210 devices (91 RTNs) have completed the initial online registration step.

- 180 devices are completely registered (shutdown/restart transmitted in an acceptable format)
- 23 devices – working on formatting changes/haven't yet conducted shutdown restart tests/shutdown only
- 7 devices – Telemetry is no longer required per LSP

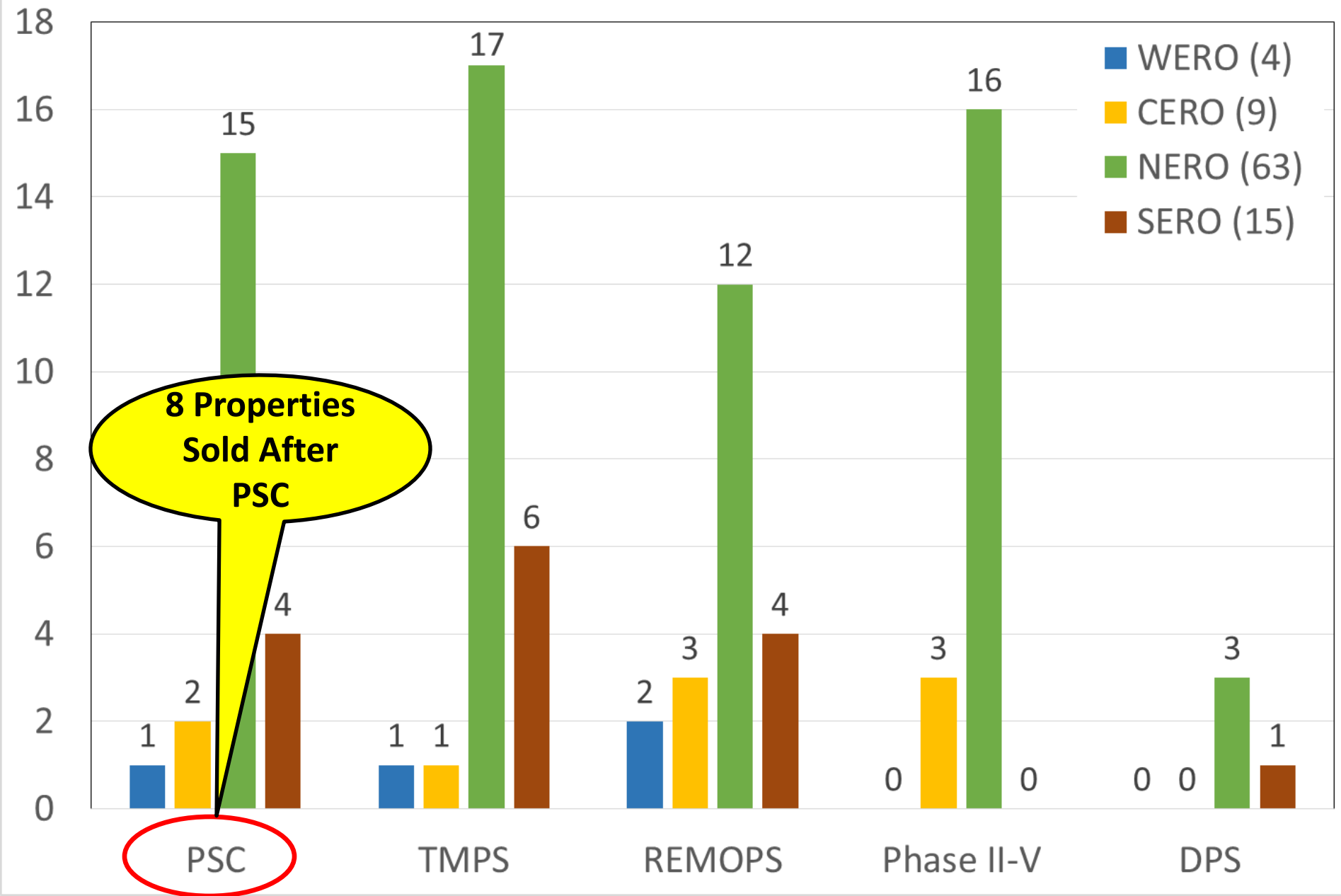
\*Online registration will move to “new” website soon



# AEPMM Telemetry Initial Registration Completed



# RTNs with Registered Telemetry

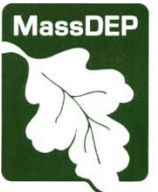


## Current Building Type for Registered AEPMMs Devices (fan or blower)

Building Type	Registered Devices	Registered Devices for PSC
Commercial	126	25
Church	1	1
Mixed Use (Com/Res)	3	1
Apartments	18	8
Condominium	4	2
Single Family Residential	26	1
Daycare	15	0
School	10	0
<b>Total Number of Devices</b>	<b>203</b>	<b>38</b>

# Primary Chemical of Concern for Vapor Intrusion for Registered AEPMMs RTNs

Chemical	All RTNs	RTNs with PSC
Naphthalene	1	0
Volatile Petroleum Hydrocarbons	7	0
Tetrachloroethylene (PCE)	29	5
Trichloroethylene (TCE)	29	12
TCE/PCE	22	5
<b>Total</b>	<b>88</b>	<b>22</b>



# MassDEP Audit/Compliance Assistance Actions

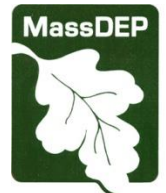
- MassDEP contacted LSPs for approximately 30 RTNs to inquire about telemetry registration
- MassDEP has issued 16 NONs since September 2016
  - No telemetry installed
  - Telemetry installed but not transmitting info
  - Failed shutdown/restart test during AUL inspection



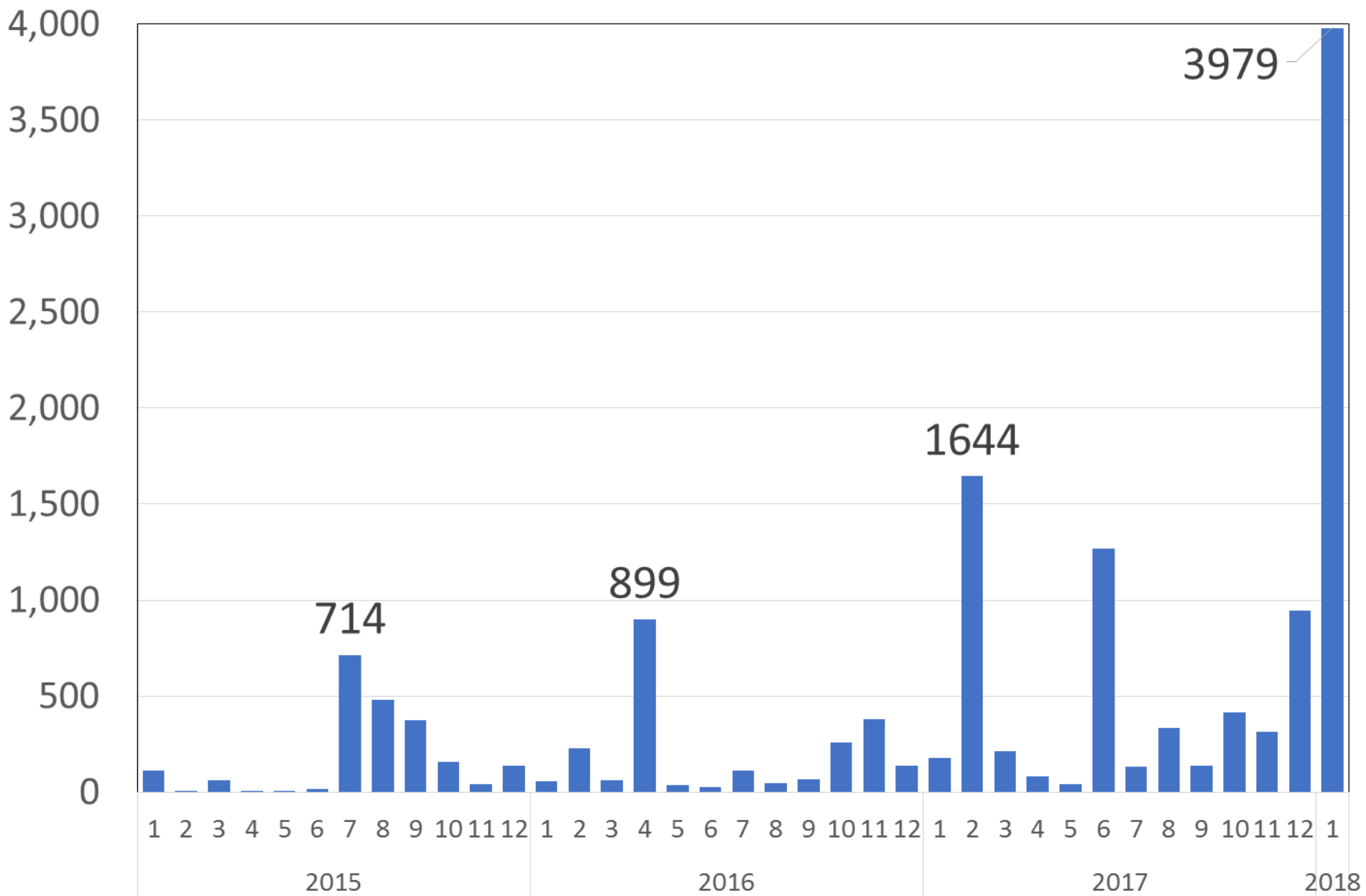


# Challenges with Current Telemetry Operations & Regulations

- MassDEP doesn't receive notifications when cellular/internet/telemetry service is stopped
  - Current owner can discontinue service
- MassDEP can be removed from notification list after registration
- “significant disruption of the effectiveness of the system” not defined in regulations
- Difficult to interpret some messages

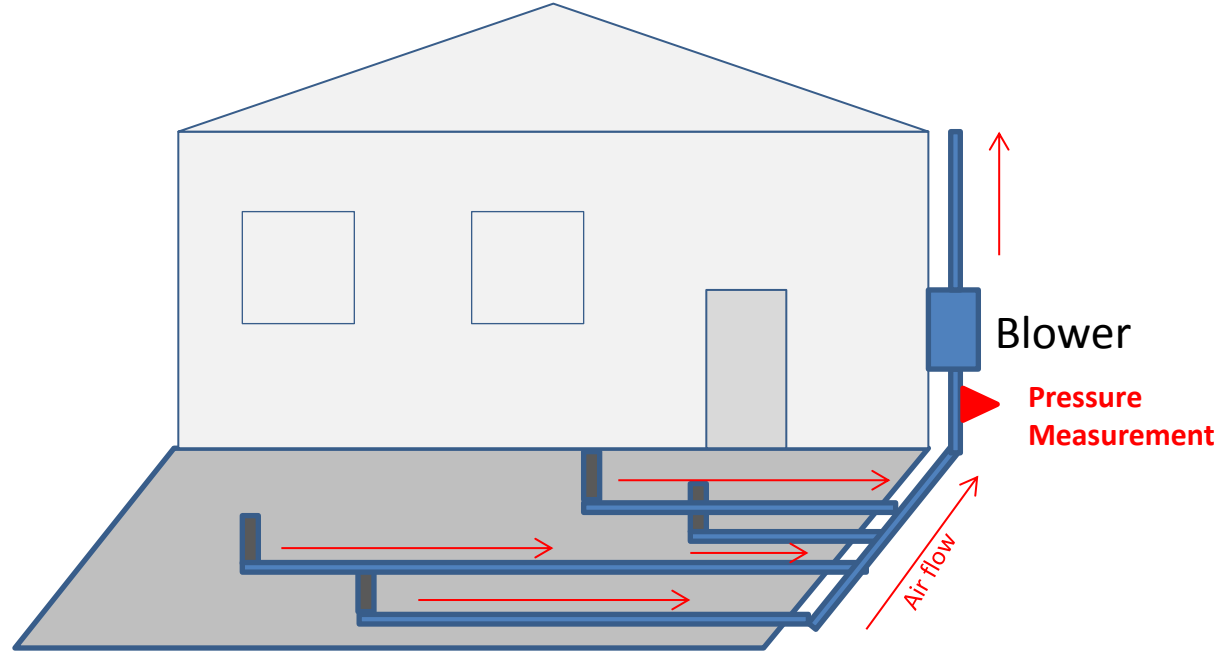


# Frequency of Notifications

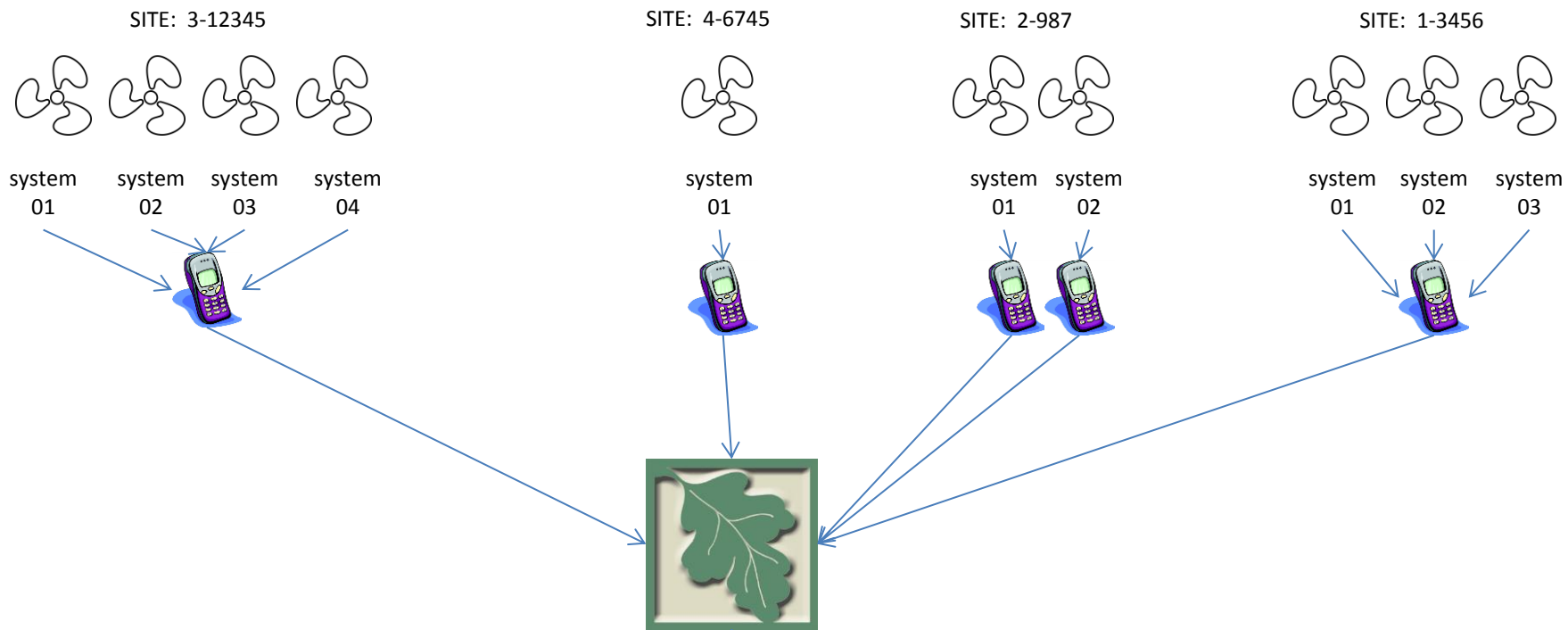


# 1. Collect Pressure Readings

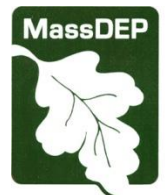
SITE: 3-12345  
Sub-Slab Depressurization System (SSDS): 01  
Unique ID: 3-12345-SSDS-PM-01



# 2. Send to MassDEP



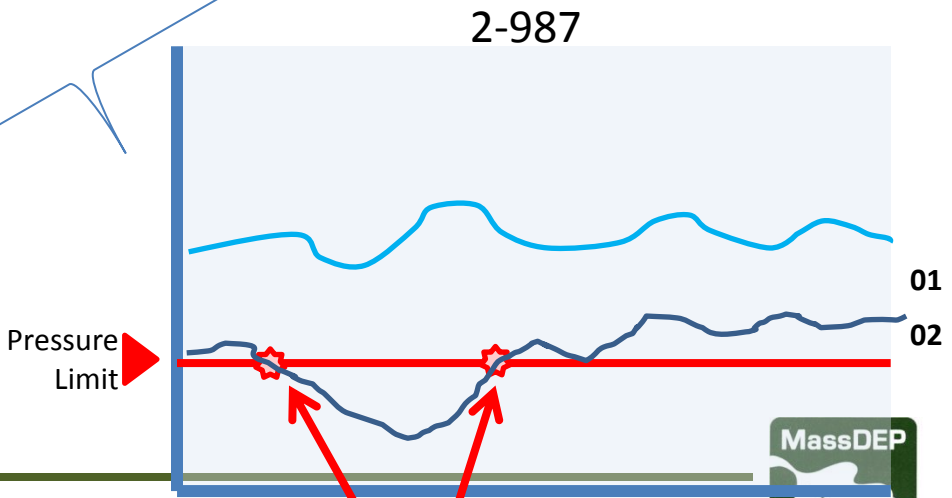
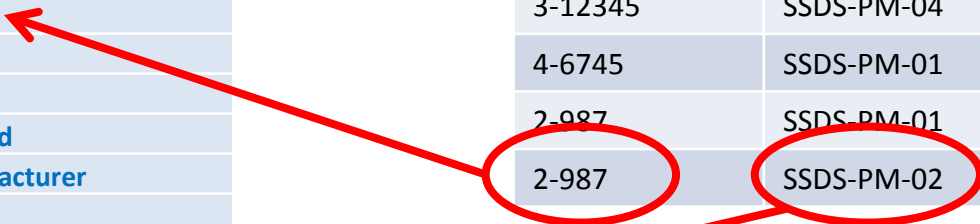
RTN	SSDS	Pressure	Date	Time
3-12345	SSDS-PM-01			
3-12345	SSDS-PM-02			
3-12345	SSDS-PM03			
3-12345	SSDS-PM-04			
4-6745	SSDS-PM-01			
2-987	SSDS-PM-01			



# 3. Present to MassDEP staff, PRP, public...

RTN	SSDS	Pressure	Date	Time
3-12345	SSDS-PM-01			
3-12345	SSDS-PM-02			
3-12345	SSDS-PM03			
3-12345	SSDS-PM-04			
4-6745	SSDS-PM-01			
2-987	SSDS-PM-01			
2-987	SSDS-PM-02			

DATA FROM SYSTEM REGISTRATION
RTN: Tracking Number
Device Number
Device Installation Date
Device Type(s) Monitored
Telemetry Device Manufacturer
Telemetry Device Make
Telemetry Device Model#
Description of the Notification...
<b>Pressure Limit Criteria</b>
AEPMM Location
Address
City
Contact Name
Contact Organization

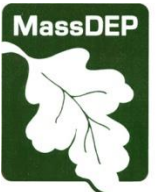


**Alert to MassDEP staff (email)**

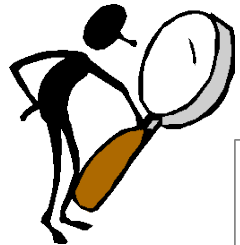


# Proposed Amendments

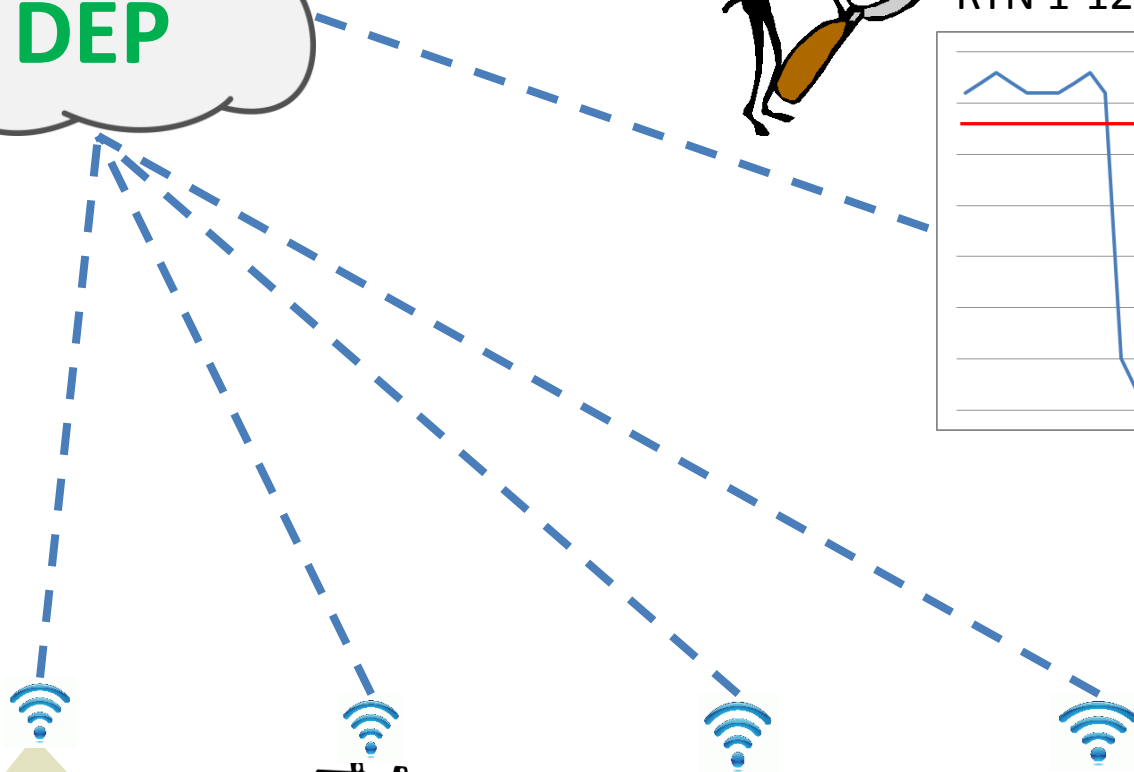
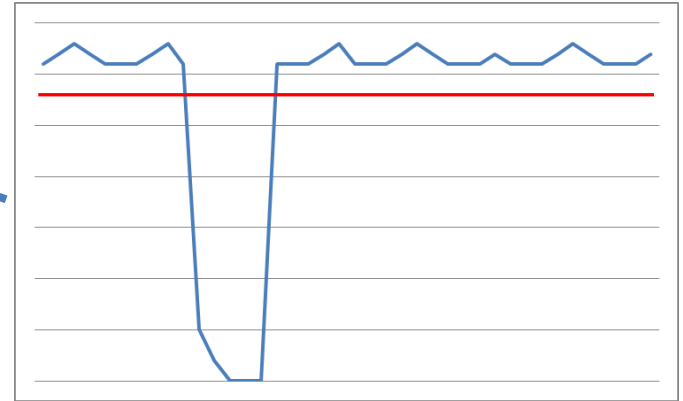
- Registration process outlined with shutdown/restart test
- Remedial Monitoring Reports required for AEPMMs except for PS
- Add shutdown/restart test to annual certification for RTNs with PSC
- Notifications should be based on vacuum measurements
- Placeholder for new telemetry method



Stakeholder

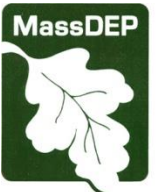


RTN 1-1234567



# Possible New Telemetry Method

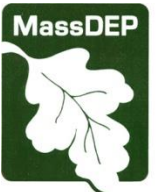
- Continuous vacuum monitoring
- Continuous data stream transmitted to DEP server (hourly?, daily?)
- Historical data available
- Data available to DEP in a more functional format as well accessible to public
- MassDEP looking to initiate pilot test for new telemetry method





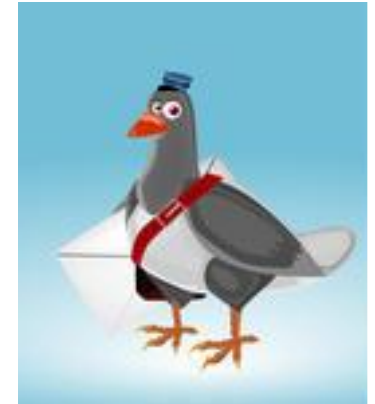
# Advantages of New Method

- More confidence in remote telemetry
  - Constant feed of data will indicate if telemetry is canceled
  - Less DEP staff resources required
- Continuous data feed replaces notifications
- Eliminates extraneous notifications
- Possible reduction in:
  - RMRs
  - Status Reports
  - Annual shutdown/restart test





# Questions?



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