

# New Requirements in Alberta's Air Monitoring Directive

2016 CPANS Conference May 3, 2016 Crystal Parrell
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Air Policy



## **Overview**

- History
- Revision process
- New requirements
- FAQs
- Timelines



## **AMD History**

#### 1989 Air Monitoring Directive

- Minimum requirements for monitoring and reporting of air quality in the province
- Applies to industrial approval holders

#### 2006 Amendment

- Replaced AMD introduction
- Introduced more enforceable tone (clauses)
- Removed requirements covered by new policies
- Updated some reporting requirements
- Added requirement for a Quality System





## **AMD History**

#### 2016 Air Monitoring Directive

- Enforceable tone
- Technology and process changes
- Airsheds
- Consistency in monitoring & reporting
- Electronic / digital reporting
- Documentation / audit trail



All Monitoring Directive

Monitoring And Reporting Procedures For Industry





#### **AMD Revision Process**

**Internal Review** 

60-day External Review

Communication with Stakeholders







#### **AMD** applies to

- EPEA approval holder
- Facilities
- Airsheds
- Anyone who submits air monitoring data or reports to AEP / AER or anyone acting on its behalf





#### Ch 1 Introduction

- Requirement to comply with AMD
- Enforceable language (clauses)
- Airsheds as "person responsible"
- Repeals 1989 and 2006 AMD
- Definitions and general req's





## Ch 2 Ambient Monitoring Planning

- Applies only to airsheds
- Develop and submit a Monitoring Plan
- Plan must be reviewed periodically





#### Ch 3 Site Selection

- Station siting criteria for ambient monitoring
- Continuous, passive, intermittent and precipitation
- Alignment with national criteria (NAPS, CAPMoN)





# Ch 4 Monitoring and Equipment Specs

- Update to ambient continuous equipment specs
- Transition from static to passive monitoring
- Mobile monitoring
- Precip monitoring





#### **Ch 5 Quality System**

- Quality Assurance Plan (QAP)
- Must verify that contractors meet AMD and Quality System req's
- Must regularly evaluate Quality System





#### **Ch 6 Ambient Data Quality**

- Expanded from 1989 requirements
- Ambient continuous monitoring
- Specific requirements for data validation / verification
- Final data must be validated by someone independent of day-to-day field operations





#### Ch 7 Calibration

- Applies to ambient analyzers
- Calibration acceptance criteria
- Must flag invalid data and take corrective action if acceptance limits not met
- Requirements for zero and highpoint adjustment
- Must measure calibrator flow





#### Ch 8 Audit

- Applies to ambient continuous stations
- Requirements follow current Ambient Audit Protocol





#### **Ch 9 Reporting**

- Industry must submit ambient monitoring data online
- Standardizes monthly, annual and source monitoring reports
- Electronic reporting via reporting forms
- Modernized emissions inventory reporting requirements
  - Applies to EPEA approved facilities
  - 8 CACs & other applicable substances
  - Release points and non-point sources
  - Consistent estimation methodologies
  - Reporting form and guidance document being developed



### **FAQs**



- How is non-compliance with AMD handled?
- Will industry and airsheds be double reporting?
- What changes have been made to CEMS?
- If monitoring is carried out for our own purposes, are we required to report the data?
- What does "immediate" notification mean?



## **Timeline**

#### **Future**

Review Updates

**TBD**Chapter 9 effective

Reporting

#### **July 2017**

Chapter 4 effective Monitoring and Equip Specs

#### **June 2016**

Chapter 6 effective Ambient Data Quality

#### **Today**

Chapters in effect:

- 1 Introduction
- 2 Monitoring Planning
- 3 Site Selection
- 5 Quality System
- 7 Calibration
- 8 Audit



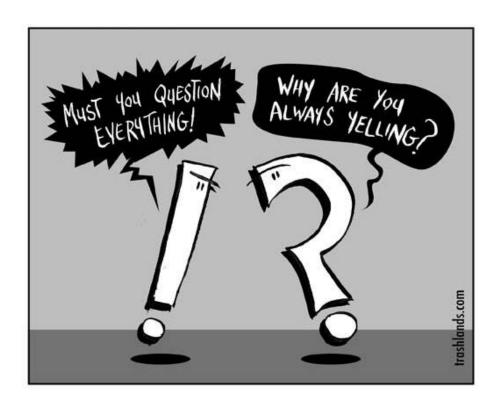


## **Implementation**

- Chapters will be reviewed ~2 years after effective date
  - Amendments made as needed
- Feedback welcome throughout implementation
- Coming ...
  - Reporting training sessions
  - Guidance documents and sample reports
  - Testing of reporting forms and data submission
  - Amendment to Substance Release Regulation



## Questions



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http://aep.alberta.ca/air/legislation/air-monitoring-directive/



#### Flow Diagram for Annual Emissions Inventory Reports

