

Regional Haze State Implementation Plan for the Second Planning Period

Public Hearing
July 1, 2022
9:00am



OKLAHOMA
Environmental
Quality

Hearing Protocol

- For those in-person, please complete a form at the registration table if you wish to speak on the record.
- When called upon, please state your name and affiliation for the record.
- Speakers will have 5 minutes each to provide testimony.
- DEQ staff will not respond to the oral comments.
- Virtual observers will not be able to speak but may submit written comments via email to AQDSIPComments@deq.ok.gov until 4:30pm today, July 1, 2022.

Regional Haze State Implementation Plan for the Second Planning Period

DEQ Hearing Presentation

Melanie Foster, Rules & Planning Section Manager



Background

- Regional Haze Program established by Congress under Sections 169A and 169B of the Clean Air Act
- Goal is to restore visibility to natural conditions at all mandatory Class I federal areas by 2064
- States required to periodically submit implementation plans that address visibility impairment at all Class I areas—both those within the state and those outside the state
- DEQ charged with developing a long-term strategy for meeting a reasonable progress goal for each planning period

Oklahoma's Class I Area: Wichita Mountains Wilderness Area



Courtesy: U.S. EPA



Courtesy: Kent Stafford

Background cont.

- Interagency Monitoring of Protected visual Environments (IMPROVE) monitor located in Wildlife Refuge
- Filter-based samples collected every three (3) days
- 20% clearest days and 20% most impaired days are determined
- Analysis reveals majority of contribution at Wichita Mountains Wilderness Area is from particulates of sulfate and nitrate
- Man-made emissions are sulfur dioxide (SO_2) and nitrogen oxides (NO_x)

Class I Areas in Other States

➤ Arkansas

- Caney Creek Wilderness Area
- Upper Buffalo Wilderness Area

➤ Missouri

- Hercules-Glades Wilderness Area

➤ Texas

- Big Bend National Park
- Guadalupe Mountains National Park



Background cont.

- 40 C.F.R. Part 51, Subpart P
- Planning Period 1 covered 2010-2018
- Significant visibility improvement made from reductions achieved from Planning Period 1 RH SIP and other air quality programs
 - Best Available Retrofit Technology (BART)
 - Cross-State Air Pollution Rule (CSAPR) and CSAPR Update
 - New Source Performance Standards (NSPS)
 - National Emission Standards for Hazardous Air Pollutants (NESHAP)

Second Planning Period 2018-2028

- DEQ began working on second planning period in 2016
- 40 C.F.R. § 51.308(f) related to periodic reports was amended on January 10, 2017
 - Submittal deadline moved from July 31, 2018, to July 31, 2021
 - Allowed for adjustments due to wildland fires and international contributions
- Consultation with surrounding states through CenSARA

Source Selection

- CenSARA Ramboll Environ Area of Influence (AOI) Study
- Fewer sources with larger individual contributions of SO_x
- More sources with smaller individual contributions of NO_x
- Twelve (12) Oklahoma sources ultimately selected for further analysis
- Sent “Ask” letters to Arkansas, Louisiana, Nebraska, and Texas
- Received “Ask” letters from Arkansas and Missouri

Source Selection cont.

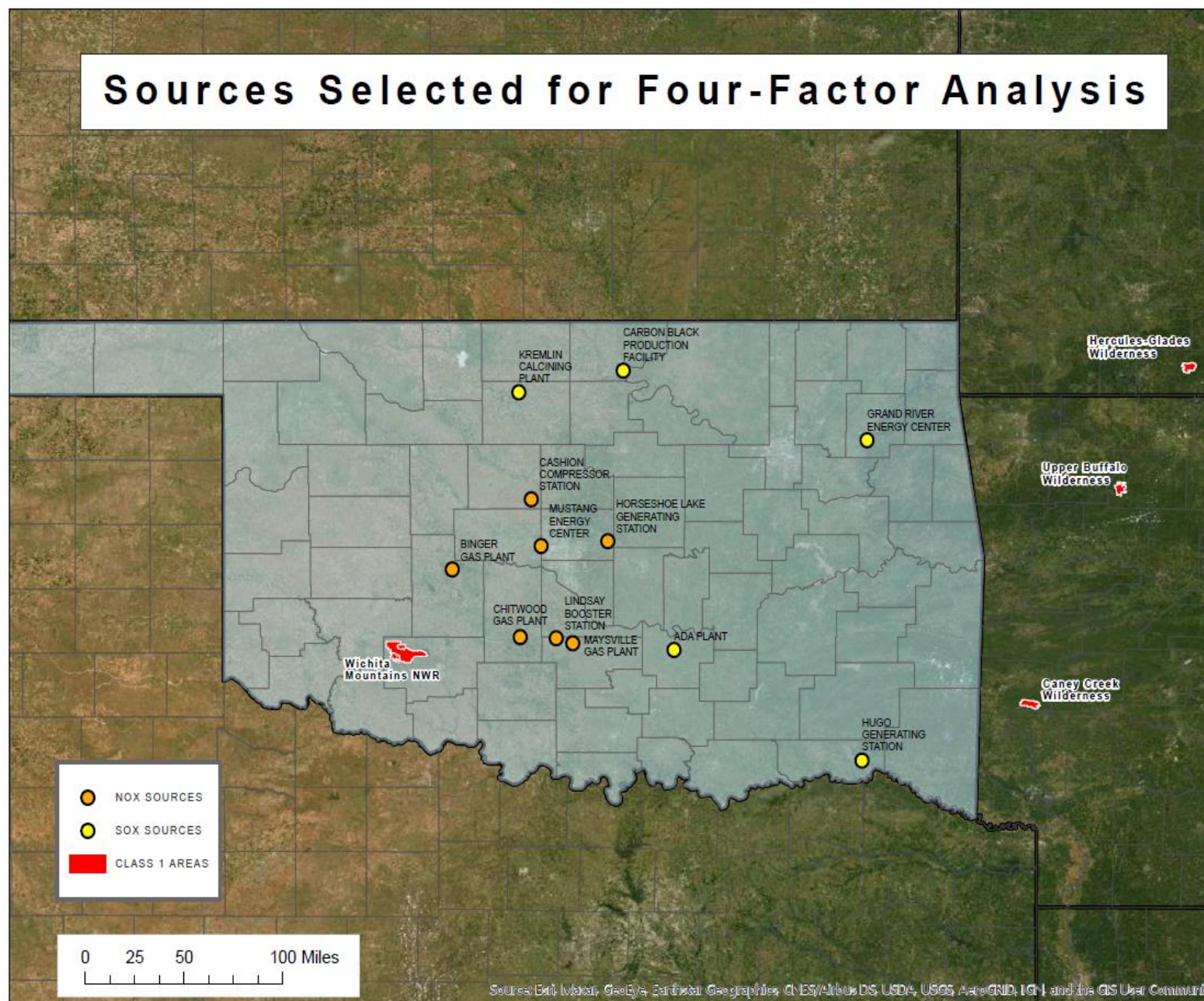
➤ 5 sources selected for SO_x

- Oxbow Kremlin Calcining
- Grand River Dam Authority
- Western Farmers Hugo Generating Plant
- Holcim Ada Cement Plant
- Continental Carbon Ponca City

➤ 7 sources selected for NO_x

- Mustang Binger Gas Plant
- DCP Chitwood Gas Plant
- ONEOK Maysville Gas Plant
- OG&E Mustang PP
- OG&E Horseshoe Lake PP
- ONEOK Lindsay Booster Station
- Panhandle Eastern Cashion Station

Sources Selected for Four-Factor Analysis



Four-factor Analysis

➤ Regulatory requirements to consider:

1. The cost of compliance
2. The time necessary for compliance
3. The energy and non-air quality environmental impacts of compliance
4. The remaining useful life of any potentially affected source

➤ Selected sources were requested to provide DEQ with a four-factor analysis for their units

- Some sources committed to install controls on affected units
- Some sources shutdown and/or removed affected units or committed to do so
- Some sources found there were no cost-effective control technologies for their units

Long-term Strategy (LTS)

- Reductions committed to by sources through 4-factor process
- Existing Oklahoma statutes and rules
- Smoke Management Plan
- EPA rules that have been proposed are expected to provide additional reductions in Planning Period 2 but these have not been relied upon in Oklahoma's LTS

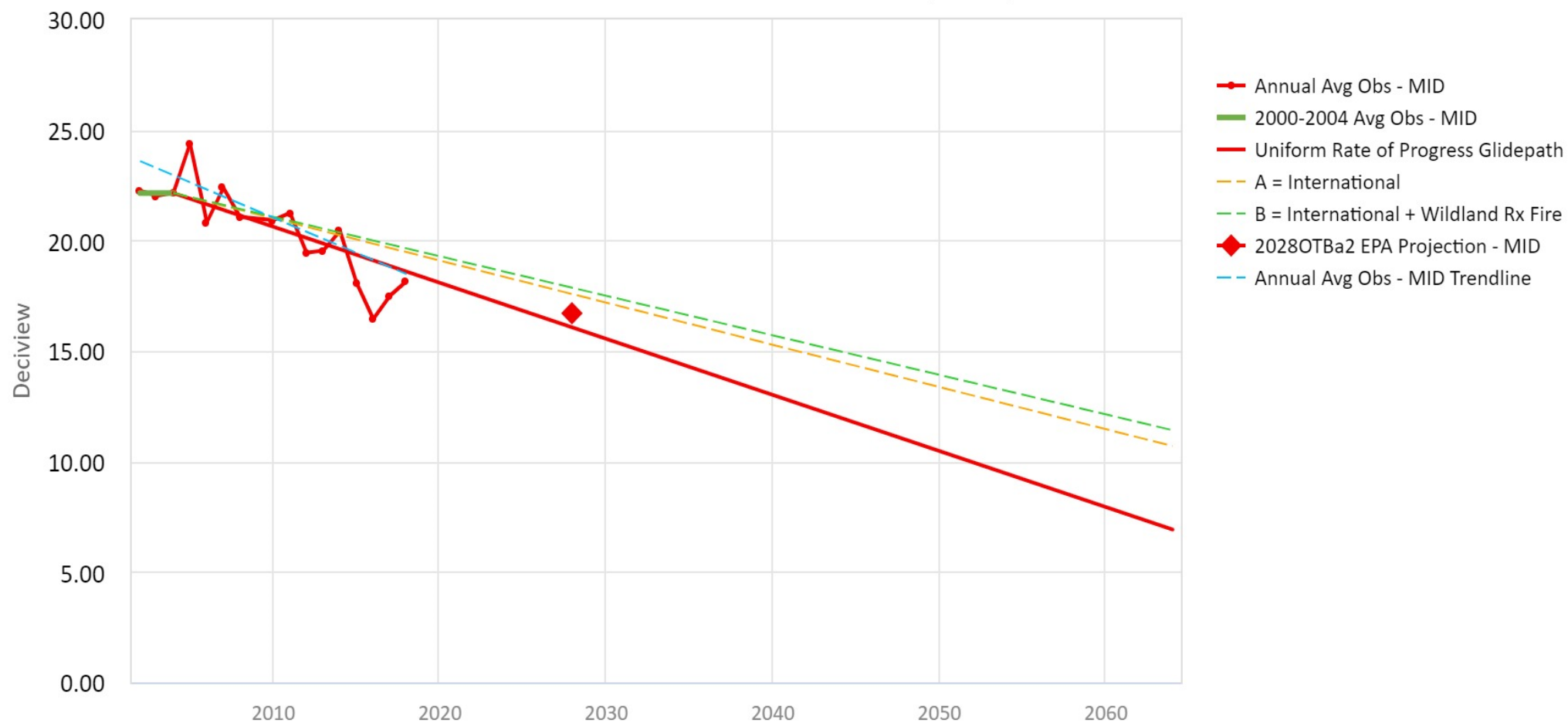
Uniform Rate of Progress (URP): Glidepath

- DEQ requesting adjustment of the glidepath for wildland fires and international sources
 - Resulting URP trendline for 2028 is 17.36 deciviews
- Projected visibility, based on EPA modeling, is 16.93 deciviews on the 20% most impaired days in 2028

Metric	Clearest 20% days (dv)	Most impaired 20% days (dv)
Baseline	9.92	22.18
2015-2019	8.65	17.58
2028 Reasonable Progress Goal	8.14	16.93
Natural Conditions	4.20	10.19

Adjustments to Uniform Rate of Progress Glidepath - Most Impaired Days

Deciview - Wichita Mountains NWRW (WIMO1)



Highcharts.com

➤ Courtesy: Western Regional Air Partnership

Consultation on Draft Plan

- Federal Land Managers
 - Formal comments received from U.S. Forest Service
- U.S. Environmental Protection Agency
 - Informal comments received from Region 6
- Tribal Partners
- Neighboring “ask” states

Next Steps for DEQ

- Comment period closes at 4:30pm today, July 1, 2022
- Review all public comments received
- Create Comments & Responses document
- Revise RH SIP if/where necessary
- Submit Planning Period 2 RH SIP and all supporting materials to EPA by August 15, 2022

Public Comments

- Per the Public Notice, only those people who are in-person at the hearing will be able to make oral comments.
- Anyone viewing the hearing virtually may submit written comments via email to AQDSIPComments@deq.ok.gov through 4:30pm today, July 1, 2022.
- Speakers will be limited to 5 minutes each.
- Speakers are encouraged to also submit their oral comments in writing.
- The public hearing will conclude at 11am but may be on recess if no public commenters desiring to speak are present.



Regional Haze Public Hearing Recessed

- There are currently no public commenters desiring to speak.
- The public hearing will resume when someone from the public wants to provide oral comments.
- Please indicate your desire to provide oral comments by filling out a form at the sign-in table.
- This hearing is still being recorded. Please refrain from holding conversations in the room during recess.
- Anyone viewing the hearing virtually may submit written comments via email to AQDSIPComments@deq.ok.gov through 4:30pm today, July 1, 2022.
- The public hearing will conclude at 11am.

