

The State of New Hampshire DEPARTMENT OF ENVIRONMENTAL SERVICES



Thomas S. Burack, Commissioner

June 8, 2016

Mr. H. Curtis Spalding Regional Administrator U.S. Environmental Protection Agency, Region 1 5 Post Office Square, Suite 100 Boston, MA 02109-3912

Re: Amendment to Certification of Adequacy for 2012 Fine Particulate Matter (PM_{2.5}) Standard

Dear Administrator Spalding:

As Governor Hassan's designee, I am enclosing for your review and approval an amendment to New Hampshire's certification of adequacy for the 2012 annual National Ambient Air Quality Standard (NAAQS) for fine particulate matter ($PM_{2.5}$) that was submitted in December 2015.

There are fourteen elements within paragraphs 110(a) (1) and (2) that New Hampshire is required to meet in the certification of adequacy. The specific statutes and administrative rules of the New Hampshire program that address those elements were identified in the SIP revision previously submitted. In response to a memo and attachments provided by EPA relative to the interstate transport or "Good Neighbor" provision for the 2012 fine particulate standard, NHDES has prepared this technical demonstration to further support the State's negative declaration relative to its contribution to NAAQS nonattainment or maintenance in a downwind state.

As the Governor's designee, my signature on this letter is evidence that the State of New Hampshire has adopted this SIP amendment and revision to the State Implementation Plan (SIP). The only state requirement for SIP submittals is that at least 30 days before the date of any public hearing related to SIP revisions, public notice shall be published in a newspaper of general daily statewide circulation.

If you have any questions, please contact me at (603) 271-1088 or Felice Janelle of my staff at (603) 271-4848.

Sincerely,

Craig aWight

Craig A. Wright Director Air Resources Division

Submitted via EPA Central Data Exchange (CDX)

Revision to the

New Hampshire State Implementation Plan

Supplement to New Hampshire 2012 Fine Particulate Matter NAAQS Infrastructure SIPs to Address the Good Neighbor Requirements of Clean Air Act Section 110(a)(2)(D)(i)(I)

June 7, 2016

Prepared by Air Resources Division New Hampshire Department of Environmental Services 29 Hazen Drive Concord, NH 03302-0095 (603) 271-3503 www.des.nh.gov

Thomas Burack, Commissioner Clark Freise, Assistant Commissioner Craig Wright, Director, Air Resources Division



INTRODUCTION

This certification is submitted in response to the revised National Ambient Air Quality Standards (NAAQS) for fine particulate matter (PM_{2.5}) as published by the EPA as a final rule on January 15, 2013 [78 FR 3086]. This revision reduces the annual fine particle standard from 15 micrograms per cubic meter (μ g/m³) to 12 μ g/m³ and retains the 24-hour fine particle standard of 35 μ g/m³. For states such as New Hampshire that are already meeting these air quality standards, EPA expects states to make certification of SIP adequacy within three years after the date of promulgation of the standards.

The New Hampshire Department of Environmental Services (NHDES) submitted "Certification of New Hampshire's State Implementation Plan Adequacy Regarding Clean Air Act Sections 110(a)(1) and (2) for Fine Particulate Matter (PM _{2.5})" (also referred to as an infrastructure SIP) to the EPA as a SIP amendment in December 2015.

In response to the recent memo¹ and attachments provided by EPA relative to the interstate transport or "Good Neighbor" provision for the 2012 fine particulate standard, NHDES has prepared this technical demonstration to further support the State's negative declaration relative to its contribution to NAAQS nonattainment or maintenance in a downwind state.

BACKGROUND

The above reference EPA memo provides future year annual $PM_{2.5}$ design values for monitors in the United States based on quality assured and certified ambient monitoring data and air quality modeling. The memo further states that "the EPA expects that, with the support from the modeling described in Attachment I of the memo and a weight of evidence assessment of the state's contribution to any identified problem receptor(s), most states will be able to develop good neighbor SIPs that demonstrate that they do not contribute significantly to nonattainment or interfere with maintenance of the 2012 $PM_{2.5}$ NAAQS."²

AIR QUALITY MONITORING

Data collected from eight monitoring stations located throughout the state indicate that New Hampshire is in attainment with the 2012 $PM_{2.5}$ NAAQS, as shown below in Table 1.

Table 1. New Hampshire PM _{2.5} data, 2012-2014 ³								
PM _{2.5} (µg/m3)		Maximum 24-Hour Average			Annual Mean			Design
City	Site ID	2012	2013	2014	2012	2013	2014	Value [*]
Laconia	33-001-2004	19.3	14.6	13.2	6.6	5.2	4.5	5.4
Keene	33-005-0007	36.8	38.5	34	8.8	8.3	9.4	8.8
Lebanon	33-009-0010	19.5	23.3	20.3	6.2	6.1	6.3	6.2

¹ Memo from Stephen D. Page, Director, EPA Office of Air Quality of Planning and Standards (AQPS), to Regional Air Division Directors, "Information on the Interstate Transport 'Good Neighbor' Provision for the 2012 Fine Particulate Matter National Ambient Air Quality Standard under the Clean Air Act (CAA) Section 110(a)(2)(D)(i)(I)", March 17, 2016

² Ibid.

³ AirData | US Environmental Protection Agency

⁴ The design value of the PM_{2.5} primary NAAQS is the annual arithmetic mean, averaged over three years.

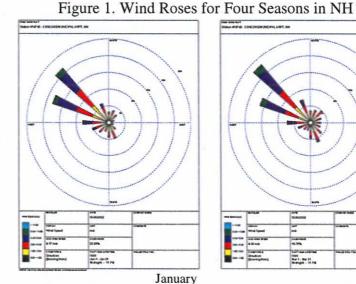
Table 1. New Hampshire PM _{2.5} data, 2012-2014 ³								
PM _{2.5} (µg/m3)		Maximum 24-Hour Average			Annual Mean			Design
City	Site ID	2012	2013	2014	2012	2013	2014	Value ⁴
Nashua	33-011-1015	24	15.8	13.8	8.2	7.5	6	7.2
Peterborough	33-011-5001	17.9	17.3	16.2	4.2	6.2	5.9	5.4
Pembroke	33-013-1006	27.1	27	18.4	8.6	7.2	6.7	7.5
Portsmouth	33-015-0014	25	29.4	21	7	7.6	6.2	6.9
Londonderry	33-015-0018	23.3	25.8	24.5	6.3	9	10.1	8.5

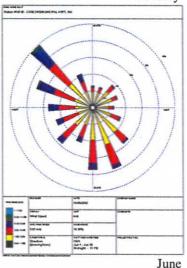
Preliminary data⁵ indicates the state has continued to meet the standards in 2015, with 24-hour 98^{th} percentile values ranging from 12-23 $\mu\text{m/m}^3,$ and annual averages between 5.1 and 8.7 μ g/m³. New Hampshire does not have any areas violating the PM_{2.5} or PM₁₀ NAAQS.

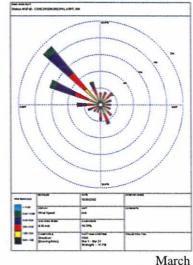
METEOROLOGY

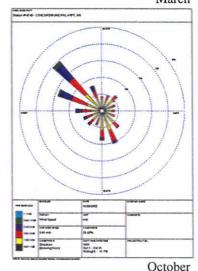
Characteristics of New Hampshire's climate are: changeableness in the weather, large ranges in temperature, both daily and annual, great differences between the same seasons in different years, equable distribution of precipitation and considerable diversity from place to place. The regional New England climatic influences are modified in New Hampshire by the varying distances from the relatively mild ocean waters, elevations and types of terrain.

Wind direction in New Hampshire is predominated by the prevailing westerlies, the belt of generally eastward air movement that produces prevalent northwest wind direction in all months of the year, as shown on Figure 1^6 . This wind pattern would favor the general southeast transport of fine particulate matter in the direction of New Hampshire's seacoast or the southwest of Maine and









⁵ Annual statistics for 2015 are not final until May 1, 2016.

⁶ http://www.wcc.nrcs.usda.gov/ftpref/downloads/climate/windrose/

northeast of Massachusetts. Neither of these states have PM2.5 nonattainment or maintenance areas.

AIR QUALITY MONITORING IN DOWN- AND UPWIND STATES

States that could potentially be impacted by PM_{2.5} emissions emanating from New Hampshire include the border states of Maine, Massachusetts and Vermont. Data obtained from the EPA⁷ indicate that these states are currently meeting the PM2.5 NAAQS (Table 2). As shown, all three states have met the NAAQS for the past three years. None of these states contain any PM2.5 maintenance areas.

	for States Bordering New Ha 98 th Percentile for 24-hr average µg/m ³			Weighted Annual Mean µg/m ³			
	2012	2013	2014	2012	2013	2014	
MASSACHUSETTS							
Average	19.6	17.1	14.8	8.2	7.4	6.1	
Boston	21.4	18.0	14.9	9.0	8.1	6.5	
Brockton	19.5	16.7	12.3	7.8	6.6	5.4	
Chelmsford	20.0						
Chicopee	17.0	16.5	16.5	7.6	6.8	5.4	
Fall River	17.0	15.0	15.5	7.1	6.9	6.7	
Greenfield			13.0				
Haverhill	18.0	15.0	13.5	7.3	6.3	5.7	
Lawrence	18.0	16.0	12.0	7.8	6.7	5.2	
Lynn	19.0	15.0	14.0	7.2	6.2	6.1	
Milton			14.0			6.1	
Pittsfield	20.0	16.0	17.0	8.5	7.4	6.0	
Springfield	20.0	19.0	19.0	8.8	7.8	6.4	
Worcester	20.0	17.7	15.7	8.2	8.0	6.3	
MAINE							
Average	25.0	21.0	17.1			7.5	
Augusta	25.0	20.0	20.0				
Bangor		19.0	15.0				
Lewiston		30.0	20.0			7.5	
Madawaska			21.0				
Hancock County		13.0	11.0				
Portland		23.0	19.0				
Presque Isle			14.0				
Rumford			17.0				
VERMONT					I		
Average	17.0	16.4	18.0	6.8	6.7	6.1	
Bennington	16.0	15.0	13.0		6.0	6.3	
Burlington	17.0	15.0	15.8	6.9	6.1	6.4	
Rutland	24.0	21.0	26.7	9.0	7.9	8.9	
Underhill	11.0	13.0	12.0	4.6		4.2	

 ⁷ <u>https://www3.epa.gov/airdata/ad_rep_mon.html</u>
 ⁸ Averaged for cities with multiple monitors.

EPA AIR QUALITY MODELING

The EPA examined recent modeling analyses that used the CAMx photochemical model with base case emissions and meteorology for 2011 to identify potential $PM_{2.5}$ nonattainment and maintenance receptors for the future projection years of 2017 and 2025.

Using that analysis, the EPA identified 19 potential nonattainment and/or maintenance receptors in 2017. Seventeen of those receptors are in California, and one projected receptor each in Idaho and Pennsylvania.

The modeling was also used to project design values for all $PM_{2.5}$ monitors with valid data in the continental U.S. Projected design values from New Hampshire and surrounding states are given in Table 3 and indicate that these areas are predicted to maintain the NAAQS through the year 2025.

	Maximum Design Value 2017 (µg/m ³)	Maximum Design Value 2025 (µg/m ³)		
NEW HAMPSHIRE				
Laconia	5.29	5.11		
Keene	8.49	7.99		
Lebanon	6.12	5.74		
Peterborough	6.98	6.72		
Suncook	7.73	7.39		
Portsmouth	6.71	6.47		
MASSACHUSETTS				
Boston	7.75	7.51		
Boston	7.53	7.3		
Boston	7.03	6.82		
Boston	8.56	8.29		
Brockton	6.71	6.51		
Chelmsford	6.58	6.4		
Chicopee	6.68	6.45		
Fall River	6.42	6.21		
Haverhill	6.46	6.27		
Lawrence	7.02	6.8		
Lynn	6.08	5.92		
Pittsfield	7.75	7.42		
Springfield	8.23	7.93		
Worcester	7.24	7		
Worcester	7.74	7.48		
MAINE				
Augusta	6.56	6.22		
Bangor	6.69	6.39		
Lewiston	6.86	6.49		
Hancock County	4.21	4.11		
Portland	7.38	7.04		

Table 3. Projected PM_{2.5} Design Values at Monitoring Locations in New Hampshire and Contiguous States

	Maximum Design Value 2017 (µg/m ³)	Maximum Design Value 2025 (µg/m ³)
Presque Isle	6.3	6.14
Rumford	7.65	7.34
VERMONT		
Bennington	6.22	5.96
Burlington	6.65	6.38
Rutland	9.04	8.46
Underhill	4.68	4.52

Table 3. Projected PM_{2.5} Design Values at Monitoring Locations in New Hampshire and Contiguous States

NEW HAMPSHIRE PM_{2.5} CONTROL PROGRAMS

As described in the infrastructure SIP submitted in December 2015, New Hampshire has infrastructure in place to limit emissions of $PM_{2.5}$ that will continue to maintain air concentrations in the State below the 2012 $PM_{2.5}$ NAAQS. These include, but are not limited to, the following SIP-approved rules and programs:

- Chapter Env-A 300, Ambient Air Quality Standards, on June 24, 2014 [79 FR 35695]
- Chapter Saf- C 3200, Official Motor Vehicle Inspection Requirements and Chapter Saf-C 5800: Roadside Diesel Opacity Inspection [79 FR 5292].
- Chapter Env-A 600, Part Env-A 619: Prevention of Significant Deterioration [80 FR 57722] and Part Env-A 618 Nonattainment New Source Review [80 FR 57722].
- Chapter Env-A 2300, Mitigation of Regional Haze rule [77 FR 50602]
- Chapter Env-A 800, Testing and Monitoring Procedures, and Chapter Env-A 900, Owner or Operator Recordkeeping and Reporting Obligations [77 FR 66388].
- Delegation for Title V permitting program granted by EPA September 24, 2001 [66 FR 48806].

SUMMARY

Based on a) the methodology specified in EPA's March 17, 2016 memorandum; b) the relevant modeling data and air quality projections provided in attachments thereto; and c) the absence of $PM_{2.5}$ nonattainment or maintenance areas in neighboring states, NHDES certifies that air emissions from sources in New Hampshire do not contribute significantly to nonattainment or maintenance of the 2012 $PM_{2.5}$ NAAQS in other states. New Hampshire therefore meets the "Good Neighbor" provision CAA of section (110)(a)(D)(i)(I).

UNION LEADER CORPORATION

P O BOX 9513 MANCHESTER, NH 03108 RECEIVED NEW HAMPSHIRE

APR 29 2016

AIR RESOURCES DIVISION

0000059625 STATE OF NH – AIR RESOURCES CO ATTN: ELAINE BOLDUC PO BOX 95 CONCORD NH 03302–0095

I hereby certify that the legal notice: (0001827310) PUB HEARING 5/27 @ 11AM was published in the New Hampshire Union Leader On: 04/25/2016.

25/2014

MNOREW Ubmfor State of New Hampshire Hillsborough County

Subscribed and sworn to before me this

M <u>pril Zell</u> 11 PA, 12 day of Public Notary mmmmm MINIMUM COM EYPIRES MAM

By its Attorney, Lindsay J. Britton, Esquire Shechtman Halperin Savage, LLP 1080 Main Street, Pawtucket, RI 02860 (401) 272-1400

(UL - April 11, 18, 25) Going Online? See more public notices at

www.unionleader.com



STATE OF NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES AIR RESOURCES DIVISION CONCORD, NEW HAMPSHIRE NOTICE OF PUBLIC COMMENT

PERIOD AND PUBLIC HEARING In accordance with New Hampshire Administrative Rule Env-A 204.01(b) and Title 40 of the Code of Federal Regulations (CFR) Section 51.102, notice is hereby given that the New Hamp shire Department of Environmental Services, Air Resources Division (the Department) has prepared, and intends to submit to the U.S. Environmental Protection Agency, amendments to New Hampshire's State Implementation Plan (SIP) to meet the requirements of the federal Clean Air Act. section 110 (a) (1) and (2), pertaining to infrastructure elements for implementation of the federal air quality standards for fine particulate matter. These standards that New Hampshire and other states must meet are contained in Title 40: Protection of Environment, section 50.18, National Primary Air **Quality Standards for PM2.5.**

This submission amends the New Hampshire Clean Air Act Section 110(a)[1] and [2] mfrastructure SIP (iSIP) for the 2012 fine particulate matter (PM2.5) NAAQS that was submitted in December 2015. This amendment provides additional information relative to element 110(a)[2][D][i][1] also known as the Good Neighbor provision. relating to interstate transport.

The Department hereby solicits comments and has scheduled a public hearing on this SIP certification. Comments must be submitted in writing or by email or fax to Felice Janelle, Air Resources Division. NH Department of Environmental Services, P.O. Box 95. Concord, NH 03302-0095: email Felice Janelle@des.nh.gov; fax [603]271-1381.

A public hearing at the Department offices has been scheduled for 11:00 a.m., Friday, May 27, 2016 in Room 111 at 29 Hazen Drive, Concord,

NH 03301.

All comments on the proposed SIP submission must be received by 4:00 p.m. on Friday, May 27, 2016, to be entered into the record.

A copy of the SIP submission is available for public inspection at the Department's offices at 29 Hazen Drive, Concord, NH, during regular working hours from 8:00 a.m. to 4:00 p.m., Monday through Friday. The main text of the SIP submission may be downloaded at <u>http://des.nh.gov/ organization/divisions/air/do/sip/ index.htm</u> under 'Fine Particulate Matter.' For more information or to make arrangements for anyone wishing to attend the hearing who may need special assistance, please call Felice Janelle (603)271-4848.

Craig A. Wright Director, Air Resources Division NH Department of Environmental Services Dated: April 21, 2016

[UL - April 25]

cancel or continue the sale and to amend the terms of the sale by written or oral announcement made before or during the foreclosure sale.

Dated at Hartford, CT. Thursday, March 24, 2016

TD BANK, N.A.. By its Attorney. Elizabeth M. Lacombe DUANE MORRIS LLP 100 Pearl Street . Suite 1415 Hartford. CT 06103

(UL - April 18, 25; May 2)

Legal Notice

THE STATE OF NEW HAMPSHIRE JUDICIAL BRANCH SUPERIOR COURT Merrimack Superior Court 163 North Main SL/PO Box 2880 Concord NH 03302-2880 Telephone: 1-855-212-123-TTY/TDD Relay: (800) 735-2954 http://www.courts.state.nh.us CITATION FOR PUBLICATION COMPLAINT TO GUIET TITLE Superior Court Rule 4(d)

Case Name: Granite Bank v Heirs, Devisees, and Legal Representatives of John Golden, a/k/a Johnny Golden, et al

Case Number: 217-2016-CV-00174

Date Complaint Filed: March 17, 2016

A Complaint to Quiet Title to a certain manufactured housing unit with all additions located in Allenstown, in the State of New Hampshire has been filed with this court. The property is described as follows:

A certain manufactured housing unit located in Town of Allenstown, County of Merrimack, in the State of New Hampshire.

The Court has entered the following order:

James J. Fleming, Esquire, 124 South River Road, Bedford, NH 03110, is appointed Guardian Ad Litem to protect the interests of the unknown heirs of the said John Golden and any other unknown persons having an interest in said mortgage premises

The Court ORDERS:

Granite Bank shall give notice to Heirs. Devisees, and Legal Representatives of John Golden, a/k/a Johnny Golden: The Unknown Persons Who Claim Any Interest or Estate in and to the Subject Matter of this Action by publishing a verified copy of this Citation for Publication once a week for three successive weeks in the Union Leader, a newspaper of general circulation. The last publication shall be on or before May 20, 2016

Also, ON OR BEFORE

30 days after the last publication -Heirs, Devisees, and Legal Representatives of John Colden, a/k/a Johnny Golden; The Unknown Persons Who Claim Any Interest or Estate in and to the Subject Matter of this Action shall file an Appearance and Answer or responsive pleading with this court. A copy of the Appearance and Answer or other responsive pleading must be sent to the party listed below.

June 10, 2016 - Granite Bank shall file the Return of Service with this Court. Failure to do so may result in this action being dismissed without further notice.

Notice to Heirs. Devisees, and Legal Representatives of John Golden, a/k/a Johnny Golden; The Unknown Persons Who Claim Any Interest or Estate in and to the Subject Matter of this Action: If you do not comply with these requirements, you will be

filings may be examined on the Committee's website: www.nhsec.nh.gov or during business hours at:

New Hampshire Site Evaluation Committee

21 South Fruit Street, Suite 10 Concord N.H. 03301

Authority for Hearing

The Committee's authority to approve or deny the proposed transfer of membership interests is set forth at RSA 162-H:5, 1.

Intervention and Public Comment A person demonstrating that his or her rights, duties, privileges, immunities or other substantial interests may be affected by this proceeding may file a motion to intervene. Any person wishing to intervene in this matter shall file a motion to intervene on or before **May 9**, **2016**. Motions to intervene shall comply with the requirements of RSA 541-A:32 and N.H. CODE OF ADMIN-ISTRATIVE RULES, Site 202.11. Objections to motions to intervene shall be filed by **May 16, 2016**.

Written public comments on the joint petition will be accepted through the conclusion of the proceedings. Motions, objections and written comments may be sent via first-class mail or email to:

Pamela Monroe, Administrator

NH Site Evaluation Committee 21 South Fruit Street, Suite 10

Concord N.H. 03301 Pamela.Monroe@sec.nh.gov

Prehearing Conference

A prehearing conference will be held on May 18, 2016 at 10:00 a.m. at the office of the Public Utilities Commis sion, 21 South Fruit Street, Suite 10. Concord, N.H. 03301. A prehearing conference is an informal proceeding at which the parties to the docket may discuss the issues including, but not limited to: the conduct of discovery and technical sessions: offers of settlement or agreement on any issue; methods to simplify the issues in dispute: stipulations or admissions as to issues of fact or proof by consent of the parties: changes to standard procedures by consent of the parties; limitations on the number of witnesses or scope of discovery: consolidation of witnesses: the filing of the testimony of witnesses: and any other matter that may aid in the disposition of the proceeding. The Petitioners, Counsel for the Public, parties seeking intervention and all other parties shall attend the prehearing conference

Public Hearing

A public hearing will be conducted on June 2, 2016 at 9:00 a.m. and on June 3, 2016 at 9:00 a.m., if needed, at the office of the Public Utilities Commission, 21 South Fruit Street, Suite 10, Concord, N.H. 03301. The public hearing shall be conducted as an adjudicative proceeding and may include deliberation on the merits of the Joint Petition.

Publication

IFM or Nautilus shall cause a copy of this Order and Notice of Pre-Hearing Conference and Public Hearing to be published no later than April 26. 2016, in the New Hampshire Union Leader, a newspaper of regular statewide circulation, and, as soon as publication schedules permit, in one or more additional newspapers having a regular circulation in Rockingham County. IFM and/or Nautilus shall file an affidavit documenting such publication with the Subcommittee on or be fore May 2, 2016. IFM and/or Nautilus shall bear the cost of said publication

SO ORDERED this twentieth day of April, 2016.

Patricia Weathersby. Presiding Officer Site Evaluation Committee (UL - April 25)



The State of New Hampshire Department of Environmental Services

Thomas S. Burack, Commissioner



CERTIFICATION OF PUBLIC PROCESS: Amendment to New Hampshire 2012 Fine Particulate Matter NAAQS to Address the Good Neighbor Requirements of Clean Air Act Section 110(a) (2)(D)(i)(I)

I hereby certify that:

In accordance with New Hampshire Administrative Rule Env-A 204.01(b) and Federal regulations at 40 CFR § 51.102, public notice was given that the New Hampshire Department of Environmental Services (the Department) intended to submit for the approval of the U.S. Environmental Protection Agency (EPA) a certification that New Hampshire's State Implementation Plan (SIP) fulfills the "infrastructure" requirements established in sections 110(a)(1) and (2) of the Clean Air Act (CAA) for ozone.

A public hearing on the SIP submittal was held at 11:00 a.m., Friday, May 27, 2016, at the Department's offices in Room 111 at 29 Hazen Drive, Concord, NH 03301. Opportunity was provided for members of the public to submit oral comments during the hearing or written comments at any time up to 4:00 p.m. on the hearing date, for consideration by the Department in preparing the final SIP submittal.

A copy of the draft SIP submittal was available for public inspection at the Department's offices at 29 Hazen Drive, Concord, NH, during regular working hours from 8:00 a.m. to 4:00 p.m., Monday through Friday, throughout the comment period. The draft SIP revision was also available for downloading from the Department's website at <u>http://des.nh.gov</u>.

The notice was published in the *Union Leader*, a newspaper of general, statewide circulation, on Friday, April 25, 2016, more than 30 days prior to the date of the hearing.

Since no members of the public attended the hearing, the presentation of the draft SIP revision and recordation of the presentation were determined to be unnecessary. Therefore, the hearing was closed at 11:10 a.m., and a memo stating the circumstances was added to the file.

The above statements are true to the best of my knowledge and belief.

Muhe Kober

Michele Roberge SIP Planning Manager, Air Resources Division

4/8/2014

Date