

From: [Douglas A. Yates](#)
To: [Dec Air Comment](#)
Subject: Air pollution source: Solar radiation management needs quantification
Date: Thursday, July 04, 2019 1:10:20 AM

RE: Fairbanks air quality issues, as reported by the News-Miner, June 27, 2019, Page 1; "DEC hears from residents on air quality"

Air quality interests, as detailed by credentialed scientists, policy makers, health experts, and members of the public, must include quantification of solar radiation management (SRM) activities before prescriptive and punitive measures are codified in law.

Solar radiation management is defined as the application of aerosolized micro-particles to the air column via direct release [presumably sanctioned by a federal agency] from jet tankers and passenger aircraft.

I am using an electronic submission in order to attach photos to illustrate my assertions. ADEC must recognize SRM's contributions to particulate loading. The insertion of particulates into the lower atmosphere in this manner demands quantification. Based on photographic evidence, a significant percentage of Fairbanks-region air pollution is the result of spray operations.

I urge the ADEC to identify the specific metals and salts, and possibly other adjuncts that are being deliberately sprayed on Alaska. Most of the releases occur in the range of 18,000 - 40,000 feet.

At its most distant, the point of release it is about eight miles to contact with habitat and human communities. The spray ultimately comes to rest in lakes, rivers, streams, city streets, homes, parks, forests, and mountain peaks. Applied on a continual basis, sunlight is intercepted before reaches the ground, resulting in lower temperatures and sub-optimal conditions for agriculture. Aerosol spraying consequences must not be mis-identified for what it is: a top-down imposition whose consequences impact those least able to absorb its harms. Cardiac and pulmonary risk is connected to more than wood smoke. According to independent researchers, aluminum and barium are identified as major constituents of the spray. Barium is known to cause cardiac arrhythmias and elevated blood pressure. Data indicates that when free aluminum is taken up in forestlands it acts as a combustion accelerant. Wildfire managers have remarked for several years that fire behavior has changed; it burns hotter, faster.

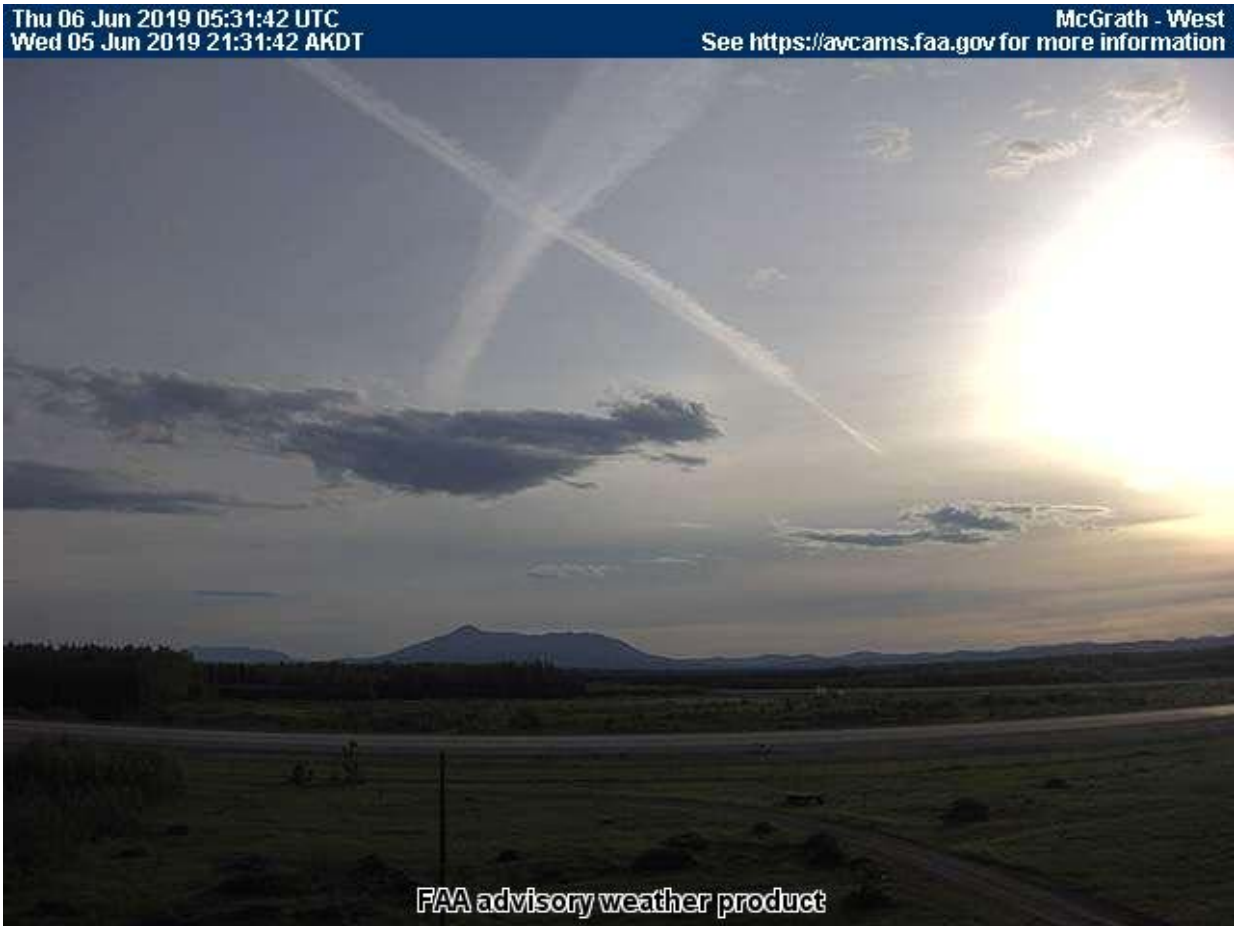
From what I see on a daily basis, SRM appears to be a massive and costly experiment; it clearly lacks informed consent of people who live below it.

Note that the attached photos were produced by the Federal Aviation Administration's network of 24/7 weather cameras located at many airports in Alaska. All photos are original and untouched, collected the day they were made. I have archived the collection

for use by independent researchers and other parties. The FAA site is: <https://avcams.faa.gov/index.php>

I'm adding 24 images [captured June 2019] to this message. Note this is a very small sampling from an archive of multiple years. Seen as a complete series [new pic every 10 min.], cameras regularly record spray operations over six or more hours. These are recent images [in abbreviated series] from select regions. SRM operations occur from Prudhoe Bay to Ketchikan, from Scammon Bay to Northway.

24 photos here:



Thu 06 Jun 2019 14:31:40 UTC
Thu 06 Jun 2019 06:31:40 AKDT

McGrath - West
See <https://avcams.faa.gov> for more information



FAA advisory weather product

Mon 24 Jun 2019 23:55:22 UTC
Mon 24 Jun 2019 15:55:22 AKDT

Ester Dome - SouthEast
See <https://avcams.faa.gov> for more information



FAA advisory weather product

Tue 25 Jun 2019 00:05:19 UTC
Mon 24 Jun 2019 16:05:19 AKDT

Ester Dome - SouthEast
See <https://avcams.faa.gov> for more information



FAA advisory weather product

Tue 25 Jun 2019 00:15:22 UTC
Mon 24 Jun 2019 16:15:22 AKDT

Ester Dome - SouthEast
See <https://avcams.faa.gov> for more information



FAA advisory weather product

Sun 02 Jun 2019 23:53:11 UTC
Sun 02 Jun 2019 15:53:11 AKDT

Ester Dome - West
See <https://avcams.faa.gov> for more information



FAA advisory weather product

Mon 17 Jun 2019 18:22:57 UTC
Mon 17 Jun 2019 10:22:57 AKDT

Central - SouthEast
See <https://avcams.faa.gov> for more information



FAA advisory weather product

Mon 17 Jun 2019 18:33:00 UTC
Mon 17 Jun 2019 10:33:00 AKDT

Central - SouthEast
See <https://avcams.faa.gov> for more information



FAA advisory weather product

Wed 19 Jun 2019 23:37:03 UTC
Wed 19 Jun 2019 15:37:03 AKDT

Chalkyitsik - SouthWest
See <https://avcams.faa.gov> for more information



FAA advisory weather product

Wed 19 Jun 2019 23:47:05 UTC
Wed 19 Jun 2019 15:47:05 AKDT

Chalkyitsik - SouthWest
See <https://avcams.faa.gov> for more information



FAA advisory weather product

Wed 19 Jun 2019 23:57:03 UTC
Wed 19 Jun 2019 15:57:03 AKDT

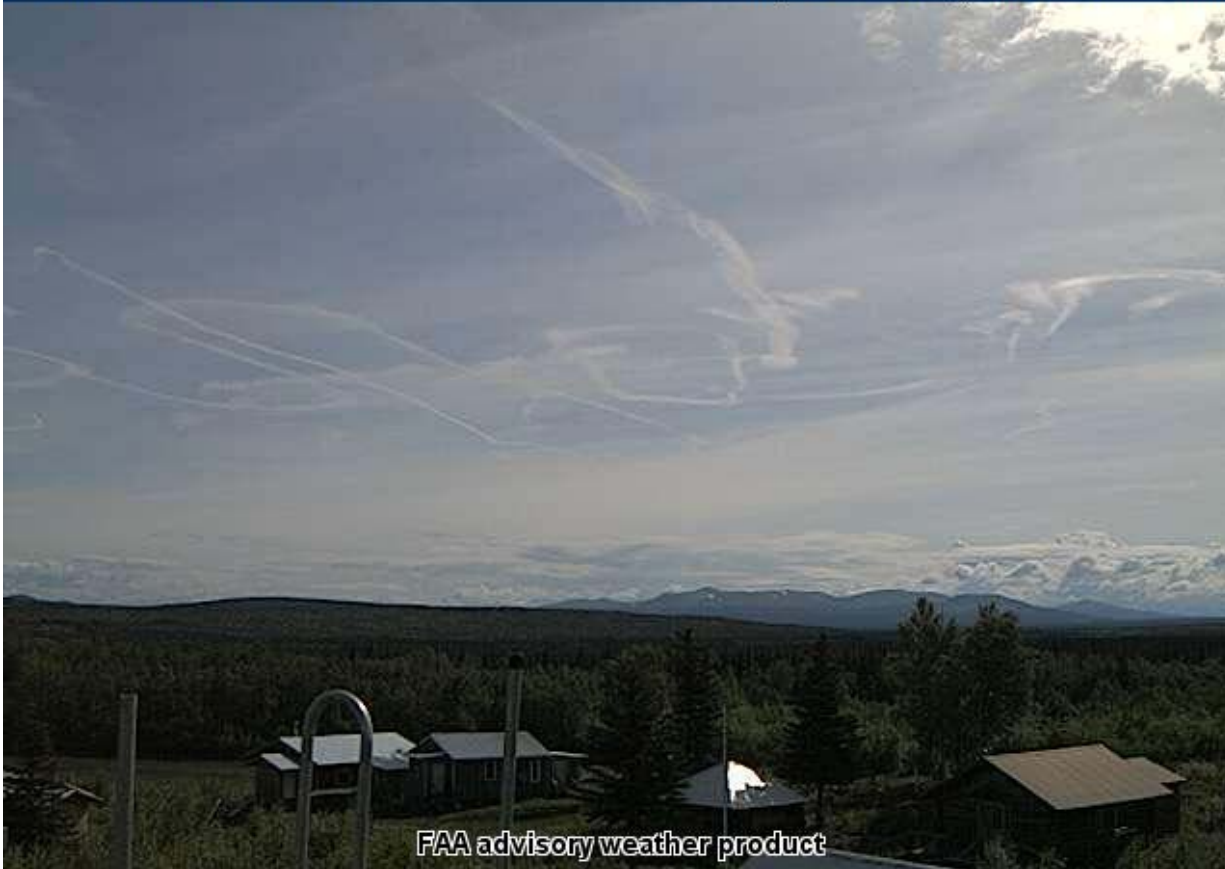
Chalkyitsik - SouthWest
See <https://avcams.faa.gov> for more information



FAA advisory weather product

Thu 06 Jun 2019 18:51:41 UTC
Thu 06 Jun 2019 10:51:41 AKDT

Lime Village - East
See <https://avcams.faa.gov> for more information



FAA advisory weather product

Thu 06 Jun 2019 19:01:41 UTC
Thu 06 Jun 2019 11:01:41 AKDT

Lime Village - East
See <https://avcams.faa.gov> for more information



FAA advisory weather product

Wed 26 Jun 2019 17:04:34 UTC
Wed 26 Jun 2019 09:04:34 AKDT

Lena Point - North
See <https://avcams.faa.gov> for more information



FAA advisory weather product

Wed 26 Jun 2019 17:14:38 UTC
Wed 26 Jun 2019 09:14:38 AKDT

Lena Point - North
See <https://avcams.faa.gov> for more information



FAA advisory weather product

Wed 26 Jun 2019 17:24:28 UTC
Wed 26 Jun 2019 09:24:28 AKDT

Lena Point - North
See <https://avcams.faa.gov> for more information



FAA advisory weather product

Fri 07 Jun 2019 19:05:23 UTC
Fri 07 Jun 2019 11:05:23 AKDT

Sheep Mountain - West
See <https://avcams.faa.gov> for more information



FAA advisory weather product

Fri 07 Jun 2019 19:15:27 UTC
Fri 07 Jun 2019 11:15:27 AKDT

Sheep Mountain - West
See <https://avcams.faa.gov> for more information



FAA advisory weather product

Fri 07 Jun 2019 19:25:28 UTC
Fri 07 Jun 2019 11:25:28 AKDT

Sheep Mountain - West
See <https://avcams.faa.gov> for more information



Fri 07 Jun 2019 19:35:31 UTC
Fri 07 Jun 2019 11:35:31 AKDT

Sheep Mountain - West
See <https://avcams.faa.gov> for more information



FAA advisory weather product

Wed 05 Jun 2019 20:42:34 UTC
Wed 05 Jun 2019 12:42:34 AKDT

Quinhagak - East
See <https://avcams.faa.gov> for more information



FAA advisory weather product

Thu 06 Jun 2019 18:47:40 UTC
Thu 06 Jun 2019 10:47:40 AKDT

New Stuyahok - North
See <https://avcams.faa.gov> for more information



FAA advisory weather product

Thu 27 Jun 2019 15:24:30 UTC
Thu 27 Jun 2019 07:24:30 AKDT

Potato Point - East
See <https://avcams.faa.gov> for more information



FAA advisory weather product

Thu 27 Jun 2019 15:34:28 UTC
Thu 27 Jun 2019 07:34:28 AKDT

Potato Point - East
See <https://avcams.faa.gov> for more information



I look forward to your acknowledgement of this message and photos. [If the photos fail to arrive, please contact me immediately to arrange for alternative transfer.] It is past time that ADEC confront daily and statewide pollution of Alaska's airspace. It must be quantified in amount and effect before the Alaska way of life is sacrificed to protect a lie.

Submitted by:

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