

Antrim Wind Energy, LLC
Annual report (2020) to the
Town of Antrim



2021-03-03
AWE_Annual_report_2020

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1. Introduction and context

This report has been prepared by TransAlta Corporation Inc. on the behalf of Antrim Wind Energy, LLC for the Antrim Wind Energy facility (AWE). The facility is located on the Tuttle Hill ridgeline in the Town of Antrim in Hillsborough County, New Hampshire. The facility comprises 9 Siemens-Gamesa Renewable Energy SWT-3.2-113, 3.2 MW. These wind turbine generators have 113 m diameter rotor with a hub height of 92.5 m for turbines 1 to 8, and 79.5 m for turbine 9.

This report aims at providing a periodic report/update as required per the Town Agreement¹.

2. Additional construction activities

At this point, no additional construction activities are planned for 2021. The site is currently operating and follows regular and preventive maintenance as required.

3. Calls for emergency, police or fire assistance

No calls for emergency, police or fire assistance were made by AWE during 2020.

4. Location of on-site fire suppression equipment

Turbine's are equipped with a specific fire suppression system. The details of such system have been previously shared with the State Fire Marshal and Town of Antrim Fire Department. Specific details/plans/location cannot be shared as they contained confidential information, please refer to https://www.nhsec.nh.gov/projects/2015-02/post-certificate-filings/2015-02_2019-07-23_redacted_app_fire_suppression_turbine_nacelles.pdf.

5. Hazardous material and EPCRA report

Attached in Appendix A is the annual Tier II report required for the hazardous material reporting under the Emergency Planning and Community Right-to-Know Act (EPCRA).

6. Complaint status

AWE has not received direct complaint during 2020. However, AWE was informed of complaints received by either the NH Site Evaluation Committee (NHSEC) and/or the Town of Antrim:

6.1. Sound

Based on the information transferred to AWE, four different abutting residents have filed complaints related to sound. Complaint validation measurements as required by the NHSEC Certificate² and the Town Agreement were initiated. Two residents did not permit access to their land in order to perform validation measurements. AWE considers these two complaints unresolved and closed but AWE will reinitiate the resolution process should land access be permitted in the future. The other two residents allowed access and validation measurements were performed by a third-party noise expert approved by NHSEC. The results were submitted to NHSEC and published on their website³ which states:

¹ Amended Agreement Between the Town of Antrim New Hampshire and Antrim Wind Energy LLC, Developer/Owner of Antrim Wind Power Project Dated as of March 8th, 2012, amended on January 16, 2018.

² NHSEC Order and Certificate of Site and Facility with Conditions, Docket No. 2015-02, March 17, 2017.

³ https://www.nhsec.nh.gov/projects/2015-02/post-certificate-filings/2015-02_2020-09-02_rev_ltr_town_antrim.pdf

"Accordingly, it is our opinion that AWE wind turbine sound likely conforms to limits of NH Code Admin. R. Site 301.14(f)(2a)." Based on this conclusion, AWE considers these two complaints resolved and closed.

6.2. Aerial obstruction lights

NHSEC provided AWE with one complaint letter from a group of stakeholders and two complaints from residents (which were part of the above-mentioned group). AWE has responded to these complaints and provided updates and clarifications on the operation of the required Aircraft Detection Lighting System (ADLS). On May 1, 2020, AWE and the ADLS manufacturer confirmed⁴ the proper operation of the ADLS as required by the Federal Aviation Administration and the latest update was provided to NHSEC on August 25, 2020⁵. Accordingly, AWE considers these three complaints resolved and closed.

⁴ https://www.nhsec.nh.gov/projects/2015-02/post-certificate-filings/2015-02_2020-05-01_ltr_awe_terma_aircraft_detection_lighting.pdf

⁵ https://www.nhsec.nh.gov/projects/2015-02/post-certificate-filings/2015-02_2020-08-25_latour.pdf

Appendix A

Facility: Antrim Wind Energy

FACILITY NAME AND LOCATION:

Antrim Wind Energy
Dept:
26 Tuttle Hill Trail
Antrim, NH 03440 USA
County: Hillsborough
Fire District:
Latitude: 43.075995
Longitude: -72.006742
MAILING ADDRESS:

All facility information (not including chemical information) is identical to last year's submission

IDENTIFICATION NUMBERS:

Dun & Bradstreet: 037363986
NAICS: 221115 (Wind Electric Power Generation)

Is the facility manned? Manned Unmanned
Maximum No. of Occupants: 3

REGULATORY INFORMATION:

Subject to Emergency Planning under Section 302 of EPCRA (40 CFR part 355)? Yes No
Subject to Chem. Accident Prevention under Section 112(r) of CAA (40 CFR part 68, Risk Mgmt. Pgm.)? Yes No

CONTACT INFORMATION:

Latour, Jeff

Title: Specialist, Environment
Contact Type(s): Tier II Information Contact
Address:
Phones: Work: (438) 320-2951
Email: JeanFrancois_Latour@transalta.com

Mollasalehi, Ethan

Title: Site Lead
Contact Type(s): Emergency Contact, Owner / Operator
Address: 26 Tuttle Hill Trail, Antrim, NH 03440 USA
Phones: 24-hour: 416-807-4805 Emergency: 403-627-2742
Email: Ethan_Mollasalehi@transalta.com

Schwehr, Adam

Title: Site Supervisor
Contact Type(s): Owner / Operator, Tier II Information Contact
Address: 26 Tuttle Hill Trail, Antrim, NH 03440 USA
Phones: Mobile - Cell: (701) 595-2540
Email: Adam.Schwehr@siemensgamesa.com

TransAlta Wind Control Center - Emergency Notification,

Title:
Contact Type(s): Other
Address:

Facility: Antrim Wind Energy (continued)

Phones: Emergency: 403-627-2742

Email:

Wassmer, Emily

Title: Project Manager

Contact Type(s): Submitter, Tier II Information Contact

Address:

Phones: Mobile - Cell: 207-298-0785

Email: ewassmer@trccompanies.com

CHEMICAL INVENTORY INFORMATION:

Chemical Name: Mineral Oil

CAS #: 64742-53-6

EHS: Yes No

Pure Mixture

Solid Liquid Gas

Identical to previous year

Trade secret

PHYSICAL HAZARDS:

- Explosive
- Flammable (gases, aerosols, liquids, or solids)
- Oxidizer (liquid, solid, or gas)
- Self-reactive
- Pyrophoric (liquid or solid)
- Pyrophoric gas
- Self-heating
- Organic peroxide
- Corrosive to metal
- Gas under pressure (compressed gas)
- In contact with water emits flammable gas
- Combustible dust

HEALTH HAZARDS:

- Acute toxicity (any route of exposure)
- Skin corrosion or irritation
- Serious eye damage or eye irritation
- Respiratory or skin sensitization
- Germ cell mutagenicity
- Carcinogenicity
- Reproductive toxicity
- Specific target organ toxicity (single or repeated exposure)
- Aspiration hazard
- Simple asphyxiant

Hazard not otherwise classified

AMOUNTS:

Below Reporting Thresholds

Maximum Amount: 69,889 pounds Maximum Amount code: 08 (50,000-74,999 pounds)

Average Daily Amount: 69,889 pounds Average Daily Amount code: 08 (50,000-74,999 pounds)

Max amount in largest container: 23,717 pounds

Days on site: 365

STORAGE LOCATIONS:

Confidential: Yes No

Location Description: Grounding transformer - substation. 110% secondary containment area

Container Type: Above ground tank Pressure: Ambient pressure Temperature: Ambient temperature

Amount: 4,252 pounds

Location Description: Main transformer - substation. 100% containment in vault

Container Type: Above ground tank Pressure: Ambient pressure Temperature: Ambient temperature

Amount: 23,717 pounds

Facility: Antrim Wind Energy (continued)

Location Description: Pad-mounted transformer - 1 at each turbine (9 total). 4,657 lb in each. 110% secondary containment area.
Container Type: Above ground tank Pressure: Ambient pressure Temperature: Ambient temperature
Amount: 41,920 pounds

STATE-SPECIFIC CHEMICAL DATA FIELDS FOR NH:

- Ships via Trucks
- Ships via Tank Trucks
- Ships via Rail Car
- Ships via Tank Car
- Ships via Pipeline
- Ships via Barge
- Ships via Other Shipment Mode

Other shipment mode: There is no shipment of mineral oil to or from the site - the filled transformers were brought to the site when the project was constructed and no oil is added to or removed from the transformers.

Frequency of Shipment:

Shipment Frequency Period:

Maximum capacity per single vessel:

Maximum Shipment Qty (lbs):

Average Shipment Qty (lbs):

Physical State in Transit:

Carrier: Not applicable - the filled transformers were brought to the site upon construction and mineral oil is not transported to or from the site.

Comments (please provide both the primary and alternate routes of travel):

State/local fees: None

- I have attached a site plan
- I have attached a list of site coordinate abbreviations
- I have attached a description of dikes and other safeguard measures

Certification (Read and sign after completing all sections)

I certify under penalty of law that I have personally examined and am familiar with the information in pages 1 through 3, and that based on my inquiry of those individuals responsible for obtaining this information, I believe that the submitted information is true, accurate, and complete.

Signature

02/19/2021

Date signed

Emily Wassmer, TRC Project Manager, Authorized Submitter
Name and official title of owner/operator OR owner/operator's authorized representative



SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

PRODUCT NAME: Transformer Oil, Type II
CAS REGISTRY NUMBER: 64742-53-6
CHEMICAL FAMILY: Petroleum Hydrocarbon Oil
COMPANY IDENTIFICATION: Tulstar Products Inc., Tulsa, OK 74105 Phone: 918-749-9060
EMERGENCY TELEPHONE NUMBERS: CHEMTREC 800-424-9300 (24 hours).

SECTION 2: HAZARDS IDENTIFICATION

Emergency Overview: Not expected to cause a severe emergency hazard.

POTENTIAL HEALTH EFFECTS

Eyes: Eye contact may result in a slight irritation and redness.

Skin: Short term contact with skin is unlikely to cause any problems; excessive or prolonged and repeated contact and poor hygiene conditions may result in dryness, dermatitis, erythema, oil acne, cracking and defatting of the skin.

Inhalation: Inhalation of vapors or mist may be irritating to respiratory passages. Prolonged exposure may result in dizziness and nausea. Target organ for mineral oil mist is lungs.

Ingestion: May result in nausea or stomach discomfort.

Carcinogen listed by: National Toxicology Program (NO)

I.A.R.C. (NO)

OSHA (NO)

ACGIH (NO)

This product does not require a cancer hazard warning in accordance with the OSHA Hazard Communication Standard.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

Personnel with pre-existing skin disorders should avoid contact with this product.

SECTION 3: COMPOSITION/ INFORMATION ON INGREDIENTS

Common Name: Severely Hydro-treated Light Naphthenic Petroleum Oil, CAS # 64742-53-6

Exposure Limits: Oil Mist.

OSHA PEL MIST 5MG/M3 8 HRS

ACGIH TLV MIST 5MG/M3 8 HRS

Concentration: 99.7% by volume.

Ingredient Name: Hindered phenol type inhibitor, CAS #128-39-2

Concentration: 0.3% by volume.

SECTION 4: FIRST AID MEASURES

EYE CONTACT: Flush eyes immediately with water for at least 15 minutes or until irritation subside. If irritation persists, consult a physician.



SKIN CONTACT: Wash thoroughly with soap and water. Remove contaminated clothing and wash before reuse. If irritation or rash develops, obtain medical assistance. Immediately remove soaked clothing.
INHALATION: Not likely to occur except a mist. Remove patient to fresh air and consult a physician. If breathing is difficult, give oxygen. If not breathing give artificial respiration.
INGESTION: Product is practically non-toxic. Do not induce vomiting. Obtain emergency medical attention.

SECTION 5: FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASH POINT: >293 F >145 C COC (ASTM D 92)

AUTOIGNITION: >650 F >343 C

FLAMMABILITY CLASS: IIIB

LOWER EXPLOSIVE LIMIT (%): Not determined.

UPPER EXPLOSIVE LIMIT (%): Not determined.

FIRE AND EXPLOSION HAZARDS

Slightly combustible. OSHA/NFPA Class IIIB Combustible Liquid. If heated above its flash point will release flammable vapors, which can burn in the open or be explosive in confined spaces if exposed to ignition source. Mists or sprays may be flammable below oil's normal flash point. Keep away from extreme heat or open flame.

EXTINGUISHING MEDIA

Dry chemical, carbon dioxide, water fog and foam. NOTE: Water, Fog and foam may cause frothing or splattering.

FIRE FIGHTING INSTRUCTIONS

Use water to cool containers exposed to flames. Do not enter enclosed or a confined work space without proper protective equipment. Fire fighting personnel should wear respiratory protection (Positive pressure if available).

Products of combustion include fumes, smoke, and carbon monoxide.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Shut off ignition source. Contain spill and keep from entering waterways or sewers. Use personal protective equipment. Advise EPA; state agency if required. Absorb on inert material. Shovel, sweep or vacuum spill.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS

Keep away from flames, sparks or hot surfaces. Never use a torch to cut or weld on or near container. Empty oil containers can contain explosive vapors. NFPA Class IIIB storage. Wash thoroughly after handling.

WORK/HYGIENIC PRACTICES

Wash hands with soap and water before eating, drinking, smoking or use of toilet facilities. Do not use gasoline, solvents, kerosene, or harsh abrasive skin cleaners for washing exposed skin areas. Take a shower after work if general contamination occurs. Remove oil-soaked clothing and launder before reuse. Launder or discard contaminated shoes and leather gloves.



SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEER CONTROLS: Use adequate ventilation to keep oil mists of this material below applicable standards(s). See Section on occupational exposure limits.

EYE/FACE PROTECTION: Safety glasses or splash goggles. Have suitable eye wash water available.

SKIN PROTECTION: Avoid prolonged and/or repeated skin contact. If prolonged contact cannot be avoided, wear protective impervious gloves and clothing. Acceptable materials for gloves are polyvinyl chloride; neoprene; nitrile; polyvinyl alcohol; viton.

RESPIRATORY PROTECTION: Normally not required if adequate ventilation. If occupational exposure limits are exceeded wear NIOSH/MSHA approved apparatus.

OTHER/ GENERAL PROTECTION: If there is a likelihood of splashing, an oil resistant clothing should be worn. Never wear oil soaked clothing. Launder or dry clean before wearing. Discard oil soaked shoes. Affix warning labels on containers in accordance with 29 CFR 1910.1200 (Hazard Communication Standard).

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear, pale straw to water white, colored, viscous liquid

ODOR: Light bland petroleum

ODOR THRESHOLD: N.D.

PHYSICAL STATE: Liquid

BOILING POINT: IBP >350 F IBP >176 C

MELTING POINT: N/A F N/A C

PERCENT VOLATILE (% BY VOL.): NIL LVP-VOC

VAPOR PRESSURE (mmHg): <0.04mm Hg @ 20° C

VAPOR DENSITY (AIR = 1): >5

SPECIFIC GRAVITY (WATER = 1): 0.91

MOLECULAR WEIGHT: 265

PACKING DENSITY: N/A

SOLUBILITY IN WATER: Negligible in water

PERCENT VOLATILE: NIL LVP-VOC

EVAPORATION RATE (ETHYL ETHER = 1): 1000X slower than ethyl ether

PH: Essentially neutral

VISCOSITY: 63 SUS @ 100 F

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS CONTRIBUTING TO INSTABILITY: Sources of ignition

INCOMPATIBILITY (MATERIAL TO AVOID): Strong oxidizers

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Combustion may produce carbon monoxide or other asphyxiants

HAZARDOUS POLYMERIZATION: Will not occur

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE STUDIES: Low order of acute oral and dermal toxicity.

EYE EFFECTS: Mild eye and skin irritant

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SKIN EFFECTS: Practically non-toxic if absorbed. May cause mild irritation with prolonged and repeated contact.

ACUTE ORAL EFFECTS: Tests on similar materials indicate low order of acute oral toxicity.

ACUTE INHALATION EFFECTS: Low acute toxicity expected on inhalation.

This product is severely hydro-treated. Severely hydro-treated naphthenic petroleum oil has not been found to be carcinogenic or a potential carcinogen. This product is not listed as carcinogenic or a potential carcinogen by the National Toxicology Program, by the I.A.R.C. monographs or by OSHA.

SECTION 12: ECOLOGICAL INFORMATION

No data given.

SECTION 13: DISPOSAL CONSIDERATIONS

Follow federal, state, and local regulations. Not a RCRA hazardous waste if uncontaminated. If "used", RCRA criteria must be determined. Do not flush to drain/ storm sewer. Contract to authorized disposal service, if permitted incineration may be practical. Recommend recycling.

SECTION 14: TRANSPORT INFORMATION

PROPER SHIPPING NAME: Not regulated by DOT.

HAZARD CLASS: Not applicable

DOT IDENTIFICATION NUMBER: N/A

DOT SHIPPING LABEL: Not regulated by DOT.

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

302/304: Not applicable

311 CATEGORIES:

Acute Health Hazard: No

Chronic Health Hazard: No

Fire Hazard: No

Pressure Release Hazard: No

Reactivity Hazard: No

EPA/TSCA Inventory: The components of this product are listed on the EPA/TSCA inventory of chemicals.

EPA Hazard Classification Code: Not applicable

Comprehensive Environmental Response, Compensation and liability Act (CERCLA):

No chemicals in this product are subject to the reporting requirements of CERCLA.

SARA TITLE III- SECTION 313 SUPPLIER NOTIFICATION

No chemical in this product exceed the De Minimus reporting level established by SARA Title III, Section 313 and 40 CFR 372

WHMIS: Not controlled

SECTION 16: OTHER INFORMATION

The information presented herein has been compiled from sources considered to be dependable and is accurate as of the date of preparation of this Material Safety Data Sheet. However, Seller does not assume any liability whatsoever

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5510 South Lewis Avenue, Tulsa, Oklahoma, 74105 | O: (918) 749-9060 F: (918) 747-1444



for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. In addition, no responsibility can be assumed by the Seller for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices, or from any hazards inherent in the nature of the material. Seller assumes no responsibility for injury to Buyer or to third persons or any damage to any property. Buyer assumes all such risks.

Material Safety Data Sheet

Tranelec[®] Conventional Transformer Oil

Cooper Power Systems
1900 East North Street
Waukesha, Wisconsin 53188-3899 USA

Emergency Telephone: (262) 547-1251
Product Information: www.cooperpower.com

Hazardous Ingredients/Identity Information

Exposure Limits: OSHA PEL ACGIH* TLV STEL
TWA (mg/m³) exposure limit for total product as oil mist (aerosol) 5 5 10

Ingredients:	CAS #	Component	Concentration
	64742-46-7	petroleum middle distillates, severely hydrotreated	50-100%
	64742-53-6	petroleum light naphthenic distillates, hydrotreated	0-50%
	128-37-0	butylated hydroxy toluene (also know as 2,6-ditertiary-butyl para-cresol, or DBPC)	<0.3%

Hazardous Materials Identification System (HMIS): Health 1 Flammability** 1 Reactivity** 1

Components of this product are listed on the U.S. Toxic Substances Control Act Chemical Substances Inventory.

* ACGI states that the air is to be sampled by a method that does not collect vapor.

** Interchangeable with NFPA 704 ratings.

Physical/Chemical Characteristics

Boiling Point: >160 °C	Specific Gravity (H₂O = 1): 0.88
Vapor Pressure (mm Hg): <0.1 @ 20 °C	Pour Point: -40 °C
Vapor Density (air = 1): >5	Evaporation Rate (butyl acetate = 1): not available
Solubility in water: negligible; <0.1%	pH: essentially neutral
Appearance and odor: Clear liquid having slight petroleum odor.	
Volatile Organic Compounds (g/L): nil	

Fire and Explosion Hazard Data

Flash Point (ASTM D-92): 145 °C (typical) **Flammability Limits:** not available

Extinguishing Media: CO₂, dry chemical, foam, and water spray (fog)

Special Fire Fighting Procedures: Use MSHA/NIOSH approved self-contained breathing apparatus with full face mask and full protective equipment in confined areas. Use water to keep fire-exposed containers cool. Water spray may be used to flush spills away from sources of ignition. Application of water to flaming oil can cause spreading.

Unusual Fire and Explosion Hazards: Slight when exposed to flame; can react with oxidizing materials.

Reactivity Data

Stability: Tranelec transformer oil is stable under normal conditions of use.

Incompatibility (materials to avoid): Avoid contact with strong oxidizing agents.

Hazardous Decomposition or By-Products: Thermal decomposition products are highly dependent on the combustion conditions. A complex mixture of airborne solid, liquid, particulates, and gases will evolve when this material undergoes pyrolysis or combustion. Carbon monoxide and other unidentified organic compounds may be formed upon combustion.

Hazardous Polymerization: will not occur

Health Hazard Data

Routes of Entry: Skin contact; eye contact or inhalation possible under mist conditions.

Skin: Essentially non-toxic. Rabbit acute dermal LD₅₀ >2000 mg/kg. Repeated or prolonged contact may result in localized irritation of the skin. May cause allergic reactions in some individuals.

Ingestion: Essentially non-toxic. Rat acute oral LD₅₀ >5000 mg/kg. May cause gastrointestinal distress. Symptoms may include irritation, nausea, vomiting and diarrhea.

Inhalation: May cause respiratory tract irritation. Exposure to dense oil mist may lead to respiratory problems.

Carcinogenicity: none **NTP:** no **IARC Monographs:** no **OSHA Regulated:** no

Signs and Symptoms of Exposure: Prolonged or repeated skin contact may cause irritation.

Medical Conditions Generally Aggravated by Exposure: none recognized

Emergency and First Aid Procedures: If ingested, DO NOT induce vomiting. If spontaneous vomiting occurs, monitor the subject for breathing difficulty. Get immediate medical attention. If inhaled, remove affected person from exposure to mists. For eye contact, flush the eyes immediately with large amounts of water with the eyelids held away from the eye to ensure thorough rinsing. For skin contact, remove by washing with soap and water. Get medical attention if irritation persists.

Control Measures

Respiratory Protection: Use MSHA/NIOSH approved supplied-air respiratory protection if occupational exposure limits are exceeded.

Ventilation: Use local exhaust to capture vapor, mists, or fumes if necessary.

Protective Gloves: Use chemical-resistant (nitrile) gloves to prevent prolonged or repeated skin contact.

Eye Protection: Wear splash goggles or safety shield to prevent eye contact. Eye baths should be readily available in the area of handling Tranelec oil.

Other Protective Clothing or Equipment: Wear chemical-resistant (nitrile) apron or other impervious clothing to avoid prolonged or repeated skin contact.

Work/Hygenic Practices: Wash with soap and water after contact. Avoid exposure to mists.

Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled: Stop flow or eliminate source of leakage. Eliminate all sources of ignition. Absorb with an oil absorbent material. No special hazards except under mist or spray conditions.

A spill or release to navigable waters must be reported immediately to the National Response Center (800-424-8802). Spills may be reportable to state or local agencies.

Waste Disposal: For recycling, consult with local used oil recyclers. Tranelec oil when recycled, discarded or disposed of is a used oil per 40 CFR 279. Tranelec oil is not a hazardous waste per 40 CFR 261. Tranelec oil from retrofilled electrical equipment, by virtue of contamination from residues of earlier fluid(s), may qualify as a hazardous waste per 40 CFR 261.

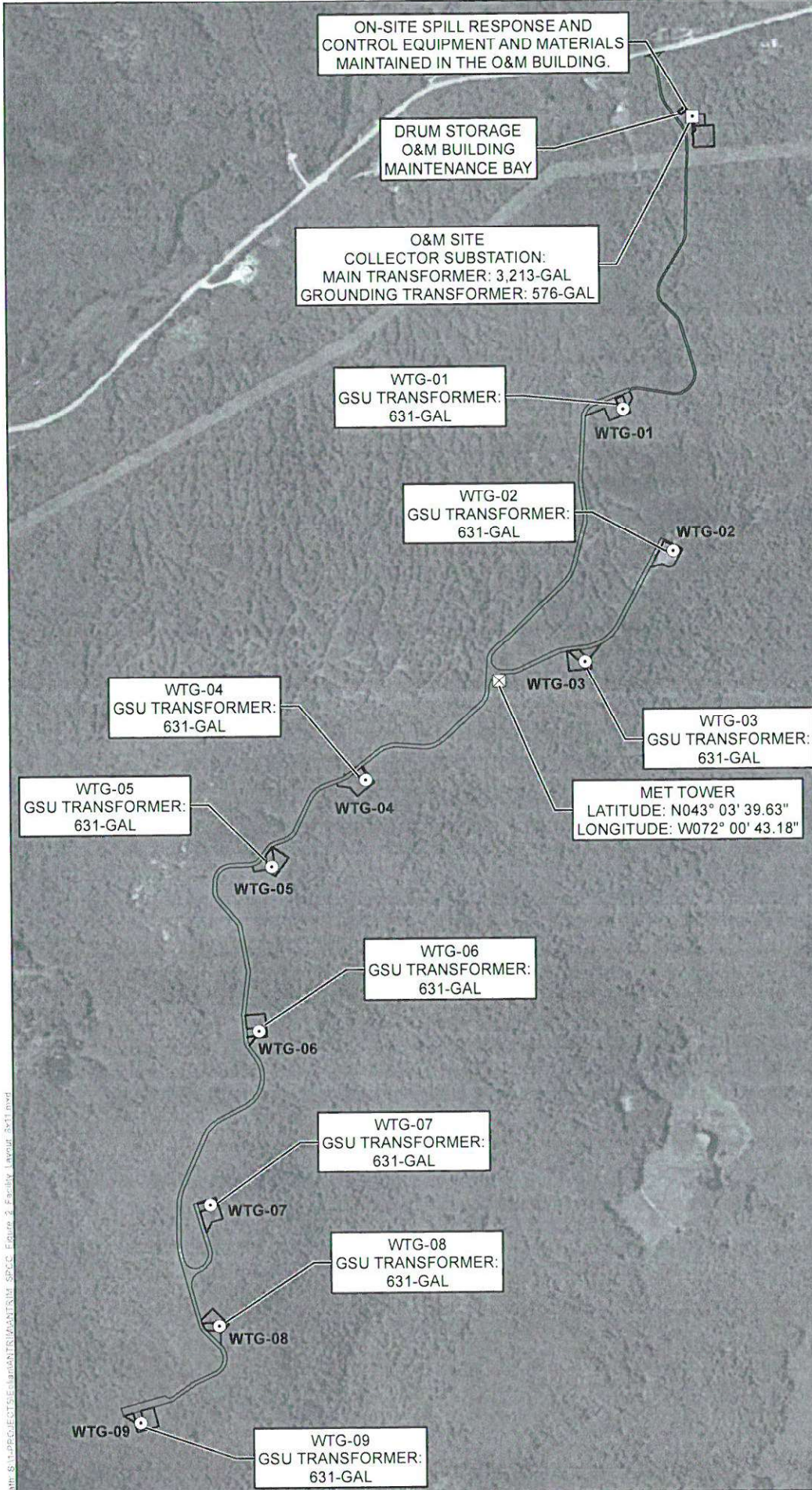
Precautions to be Taken in Handling and Storage: Avoid extremes of temperature in storage. Store Tranelec oil in labeled, tightly closed containers in cool, dry, isolated and well ventilated areas, away from sources of ignition or heat. To maintain fluid for intended use as an electrical insulating fluid, eliminate exposure to oxygen and moisture.

This Material Safety Data Sheet has been prepared in order to help the users of Tranelec conventional transformer oil. The data contained herein is accurate as of the date of preparation of this sheet.

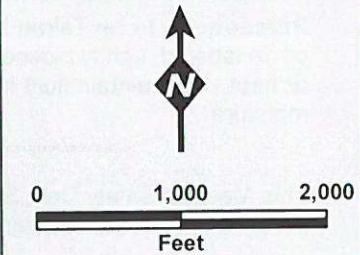
Effective Date: January 13, 2005



John Luksich
Senior Engineer – Dielectric Fluids



- Legend**
- Antrim Wind Energy Project
 - WTG Locations
 - MET Tower Location
 - O&M Site



Antrim Wind Energy
 ANTRIM WIND ENERGY PROJECT
 ANTRIM, NH

SPCC Plan
 Figure 2
 Facility Layout

14 Gabnel Drive
 Augusta, ME 04330

D:\NH_811\PROJECTS\E-land\ANTRIM\ANTRIM_SPCC_Figure 2 Facility Layout_8x11.mxd



6 Ashley Dr., 1st Floor
Scarborough, ME 04074

T 207.879.1930
TRCcompanies.com

**NH Department of Safety - Division of Fire Safety
State Fire Marshal's Office
33 Hazen Drive
Concord, NH 03305**

February 19, 2021

To Whom It May Concern:

TRC has been authorized by TransAlta Corporation to prepare and submit their annual Tier II forms for the following facility:

Facility Name: Antrim Wind Energy
Address: 26 Tuttle Hill Trail, Antrim, New Hampshire

Attached please find an authorization letter from TransAlta Corporation.

If you have any questions, please feel free to contact me.

Sincerely,

TRC

A handwritten signature in black ink, appearing to read "Emily M. Wassmer".

Emily M. Wassmer, PG
Project Manager
ewassmer@trccompanies.com

(207) 298-0785

Enclosed: Authorization Letter

cc: Jean-François Latour, TransAlta Corporation



TransAlta Corporation

T (403) 267-7110

Box 1900, Station "M"

www.transalta.com

110 - 12th Avenue SW

Calgary, Alberta

T2P 2M1

Jean-François Latour, B. Sc., ASA

Specialist, environment | Wind & Solar Operations

Direct Line: (438) 320-2951

Email: JeanFrancois.Latour@transalta.com

February 19, 2021

NH Department of Safety - Division of Fire Safety
State Fire Marshal's Office
33 Hazen Drive
Concord, NH 03305

Re: Antrim Wind Energy – EPCRA Tier II reporting

To Whom It May Concern:

This letter confirms our authorization for TRC, as our consultant, to prepare and submit our annual Tier II forms for the following facility:

Facility Name: Antrim Wind Energy
Address: 26 Tuttle Hill Trail, Antrim, New Hampshire

If you have any questions, please feel free to contact us.

Sincerely,

TRANSALTA CORPORATION

Jean-François Latour, B. Sc., ASA
Specialist, environment | Wind & Solar Operations

c.c. Emily Wassmer (TRC), ewassmer@trccompanies.com