



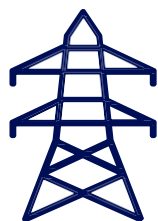
# E2 Emergency Response Plan

## Sarnia Regional Cogeneration Plant

January 2023



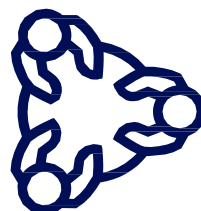
# TransAlta Sarnia E2 Emergency Response Plan



## About the Facility

TransAlta's Sarnia Regional Cogeneration Plant is located at 1475 Vidal Street South in Sarnia, Ontario. The Sarnia plant has three Alstom gas turbines, two condensing steam turbines, and back-pressure steam turbines. The plant also incorporates a gas fired boiler, river water pump houses, and water treatment plants.

The facility has long term contracts to supply steam and electricity to industrial neighbours with electricity also being sold into the Ontario market via the Independent Electricity System Operator (IESO).



## Scope of the E2 Response Plan

The objectives of the Federal E2 Regulations (SOR/2019-51) are to address the prevention of, preparedness for, response to, and recovery from significant environmental emergencies caused by uncontrolled, unplanned, or accidental releases of hazardous substances.

To meet updated requirements of the Regulation, TransAlta is providing the following information related to the site's hydrochloric acid storage tank system.



## Modelled E2 Emergencies

The use and storage of hydrochloric acid at our site has associated hazards that may affect members of the general public if a significant release was to occur. **Under Schedule 1 (Part 2) of the Regulation, these hazards may include the inhalation of fumes resulting in irritation of the nose and lungs.**

As part of the TransAlta E2 plan, the extent of a potential hydrochloric acid vapour release has been modelled to determine the potential human and environmental receptors that may exist in the vicinity of the facility.



# Site Safety and Incident Prevention

TransAlta has well established safety programs and processes in place at the Sarnia facility to protect our neighbours prior to and in the unlikely event of an incident. Those include, but are not limited to;

- Risk evaluations of plant equipment and processes,
- A robust predictive and preventative maintenance program,
- Realtime process monitoring,
- On-going operator training,
- Chemical handling processes,
- An acid vapour scrubber system,
- An acid neutralization system,
- Well defined incident management and lessons learned processes,
- Drill planning/execution,
- Mutual Aid partnerships.

In addition to the process mentioned above, TransAlta believes that a strong safety culture is paramount to our operations and applies these values to the safety of both site personnel and the communities in which we operate.



# Public Notification

If a significant incident was to occur, TransAlta will initiate site emergency operations response plans and seek assistance from both municipal emergency responders and Sarnia Lambton Community Awareness and Emergency Response (CAER) partners. Additional emergency resources will be engaged as needed. Furthermore, TransAlta will notify all relevant authorities and inform any members of the public who may be affected.

Providing up to date information to the public is a priority of TransAlta. In the event that an incident is determined to have an offsite impact, TransAlta will;

- Notify Bluewater Association for Safety, Environment and Sustainability (BASES) organization using CAER Code Notification System. [Alerts Archive - BASES Website \(lambtonbases.ca\)](#)
- Provide public alerts and updates via the Sarnia-Lambton Alerts notification tool. [Sarnia-Lambton Alerts - Notifications \(everbridge.net\)](#) or by calling the community hotline at **226-778-4611**
- Notify Regulatory Stakeholders including the Ministry of Environment, Conservation and Parks (MECP)
- Additional information may be posted to both TransAlta's Twitter and Facebook accounts. [TransAlta \(@TransAlta\) / Twitter TransAlta | Facebook](#)

As always, remain calm, follow directions from local authorities, and monitor for updates as the incident progresses.

**Yours Truly,**  
**TRANSALTA (SC) Limited Partnership**

**Daniel Morais**  
**Director, North American Gas Operations**

