INTERTEK SUSTAINABILITY SOLUTIONS

ZERO OZONE PROGRAM TOP-17 FAQS

Answers to some of your most frequently asked questions

intertek sustainability

intertek sustainability

INTERTEK SUSTAINABILITY SOLUTIONS

ZERO OZONE PROGRAM
TOP-17 FAQS

Answers to some of your most frequently asked questions

This FAQ will help improve the basic understanding of the Intertek Zero Ozone program and facilitate communication and discussion of such test requests.

1. What is ozone, and why is it important?

- Ozone, or trioxygen, is an inorganic molecule with the chemical formula O_3. It's a pale blue gas with a distinctively pungent smell. Due to its high oxidizing potential, ozone can cause damage to mucous and respiratory tissues above concentrations of approximately 0.1 ppm. Per the EPA, long-term exposure to ozone is linked to aggravation of asthma and is likely to be one of many causes of asthma development. Long-term exposures to higher concentrations of ozone may also be linked to permanent lung damage, such as abnormal lung development in children.
- Standards and regulations exist to limit human exposure to elevated levels of ozone.

2. What are the benefits of the Intertek Zero Ozone Verification Program?

The benefits most sought by manufacturers are compliance with the program and authorization to mark a product. The ability to mark a device with our verification label showcases your product meets the ozone emission requirements for the regulatory and market-driven programs within North America. Additional benefits include:

- Ability to differentiate your products from that of your competitors
- Create consumer confidence with legitimate marketing claims regarding your product's safety (a label negates the need to educate your consumer on why your product is safe, the label attests it for you)
- One-on-one guidance navigating testing needs, reports, marketing claims, labeling approvals, etc.
- Verified products will receive a certificate and product labels to highlight the device's safety and compliance
- All verified products are listed on Intertek Sustainability's public database of sustainable products (note: if your product requires electrical safety testing, your company will also be listed in the Intertek ETL Directory)

3. How do I know what I can or cannot do with the mark?

All Zero Ozone Verification clients receive a marketing contact to assist with labeling questions, approvals, and an initial social promotion on Intertek Sustainability's LinkedIn account. A published guide of Intertek Sustainability mark usage can be found here: https://www.intertek.com/WorkArea/DownloadAsset.aspx?id=34359807308

4. What types of products can obtain this certification?

Products qualifying for this verification program include air cleaners, purifiers, car air cleaners, and deodorizers. Per UL 2998 (the test standard used for Zero Ozone Verification), air-cleaning devices "which potentially generate ozone, are rated at 600 volts or less, are intended to remove or aid removal of dust, other particles or pollutants from the air and are intended for use per the National Electrical Code, ANSI/ NFPA," may qualify for our program. Types of air-cleaners tested consist of duct, fixed, portable, stationary, and self-contained.

5. Is this a mandatory requirement?

While this program is a voluntary verification, it meets or exceeds the requirements set by North American federal and state governments for ozone emissions of air cleaner devices. Products verified to Zero Ozone do pass the U.S. Environmental Protection Agency's (E.P.A.) requirement of UL 867 or UL 2998 compliance. Therefore, manufacturers of this program will also qualify for CARB compliance, electrical safety (ETL) compliance, and other nationally recognized programs (i.e., Energy Star® certification, AHAM requirements, and Clean Air Certification). Our experts help you

ZERO OZONE PROGRAM
TOP-17 FAQS

intertek sustainability

to determine the testing and certification needs of your product, as well as leverage existing test data to validate claims for as many programs for which your device may qualify. *Note, adding additional testing or certification programs to your Zero Ozone Verification may require extra fees.*

6. Does obtaining this certification mean I meet all the regulatory requirements?

- A passing certificate from this program identifies your product emits little-to-no ozone (≤0.005 ppm), which is below federal regulations. All manufacturers of air-cleaning devices must submit proper documentation to regulating authorities to sell their products in North America. By law, Intertek can not submit documents on behalf of manufacturers
- Regulating authorities require test data to validate your device meets their requirements, for which Zero Ozone Verification test reports and certificates act to support your qualifications. Our experts can direct manufacturers to the proper authorities for document submittal

7. How long does it take to receive verification?

- The test itself can take as little as 24 hours, depending on product design. The full process of testing, verification report, certificates, product labels, and inclusion on our Sustainability Directory takes approximately 4 weeks
- If your product has already been certified to UL 867 with an acceptable ozone test, per section 40 (≤0.005 ppm), Zero Ozone Verification can be completed within 7-10 business days

8. What information is needed from me (the manufacturer) to start the Intertek Zero Ozone Verification process?

- Supporting documentation for a current electrical safety listing from an NRTL. (If you don't have this, we can help.
- A recent ozone emissions test report (within the last 2.5 years) demonstrating emissions not exceeding 0.005 parts per million (ppm)

UV lighting products, such as this nail dryer, need to be evaluated for ozone emissions

- Product documentation (manuals, specification sheets, etc.)

9. What types of products are evaluated for ozone emissions?

- Air cleaners (portable, fixed, stationary, self-contained; also car air cleaners and deodorizers)
- Personal grooming devices
- Personal hygiene and health care appliances
- Vacuum cleaners
- Air conditioners
- Humidifiers
- UV lighting products
- Water treatment appliances

10. Per UL 2998, what is considered an "Air Cleaner?"

- "Air Cleaner" is defined in UL 2998 as, "a product intended to remove or aid in the removal of dust and other particles from the air
- Per UL 2998, an air cleaner includes: "Duct type, Fixed, Portable, Stationary, or Self-Contained"

11. My Product is certified to a standard other than UL 867. Do I need to do additional testing?

- A product must be tested as described by the Standard for Electrostatic Air Cleaners, UL 867 Section 40, or an equivalent test. If you have test documentation for ozone emittance, we can evaluate if that test method, and the lab which performed the testing, act as an acceptable test equivalent
- If your existing test results are deemed an acceptable equivalent, our team can substantiate your testing with verification into our program. Reduced program fees would apply for test reviews, certificates, and Zero Ozone Verification labels

12. My Product is approved by another NRTL for electrical safety. Can I still receive the Zero Ozone Verification mark?

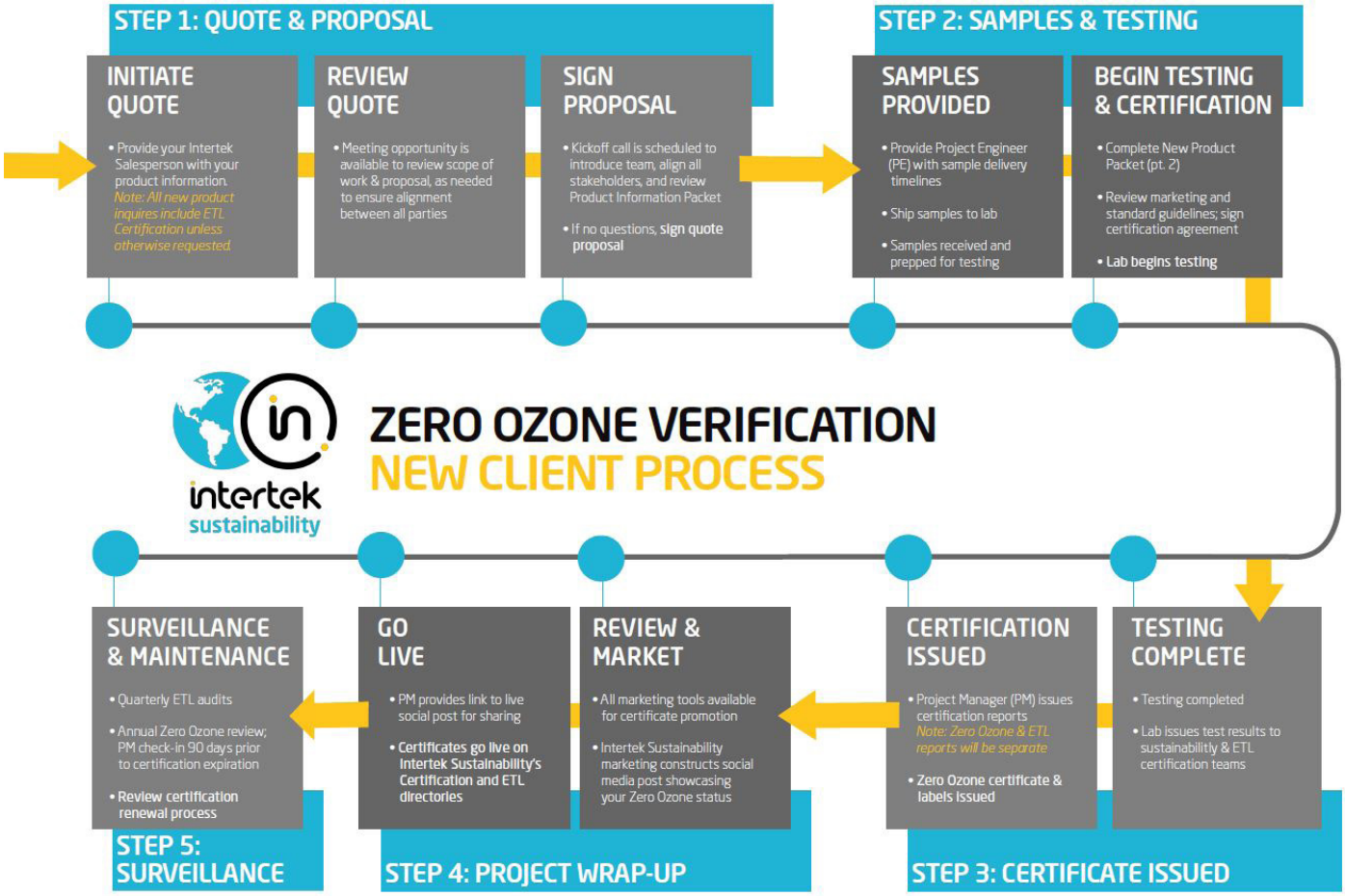
Absolutely! If you have a product that is under active, follow-up surveillance with another NRTL, you are eligible to apply for the Zero Ozone Verification program. Contact one of our Program Managers to discuss the details.

13. Is there an annual requirement for the Zero Ozone Verification program?

- There is annual surveillance as part of this verification. If no product changes were made, a new certificate will be provided before the existing certificate expiration
- Every 3-years, new testing is required to stay in the program which is in addition to your annual certification fee

ZERO OZONE PROGRAM
TOP-17 FAQS

intertek sustainability



14. What is the process to partake in this program?

- For a general overview of our Zero Ozone Verification process, see our New Client Process Guide shown above
- Note, if you require additional electrical safety testing or require our assistance in a CARB application, that may include an additional step, but Intertek can help. Speak to a member of our team for full details

15. Where does testing take place?

- Testing and evaluation are performed at our Cortland, NY lab (USA). This is where samples and reports are managed
- Certificates and program maintenance are managed through our Kentwood, MI (USA) location

16. As a manufacturer, I have multiple models that are similar, how does that impact our ability to get a certifiate?

Model grouping is acceptable as part of this program. Intertek Program Managers can assist in product grouping requirements, as well as multiple listee certificates if your products are distributed under private label programs.

17. I am in the design phase with my product; can I use my prototype for testing?

Testing can be performed on a prototype unit as long is it is a representative of the manufacturing sample. Therefore, components, spacings, fan, and airflow must be identical to production models.

About Intertek

Total Quality. Assured.

Intertek is a leading Total Quality Assurance provider to industries worldwide. Our network of more than 1,000 laboratories and offices and over 46,000 people in more than 100 countries, delivers innovative and bespoke Assurance, Testing, Inspection and Certification solutions for our customers' operations and supply chains. Intertek Total Quality Assurance expertise, delivered consistently with precision, pace and passion, enabling our customers to power ahead safely.

FOR MORE INFORMATION

+1 607 753 6711

sustainabilitycertification@intertek.com

intertek.com/sustainability/zero-ozone