

May 20, 2026

Michael Walker, CEO  
STAX Engineering, Inc.  
215 West Figueroa Street  
Santa Barbara, California 90802  
[m.walker@staxengineering.com](mailto:m.walker@staxengineering.com)

Dear Michael Walker:

California Air Resources Board (CARB) is issuing the enclosed Executive Order (EO) G-24-054-004 for STAXbox capture and control systems for auxiliary marine diesel engines on auto carriers/roll-on roll-off (ro-ro) vessels under the 2020 At Berth Regulation, California Code of Regulations, title 17, section 93130.5. EO G-24-054-004 identifies the monitoring, reporting, and record-keeping requirements for approved STAXbox systems and stipulates the approved operating conditions for use of the STAXbox systems. EO G-24-054-003 is hereby superseded and is of no further force and effect.

EO G-24-054-004 reflects the following changes:

**Removal of STAXbox 8-2 from the approved equipment list**

STAXbox 8-2 (Xcraft-8) was previously approved for use on ro-ro vessels under EO G-24-054-003; however, STAX requested STAXbox 8-2 be removed from the approved equipment list. As requested by STAX on November 12, 2025, STAXbox 8-2 has been removed from the approved equipment list under G-24-054-004 and may no longer be used for compliance with the 2020 At Berth Regulation. To use STAXbox 8-2 on ro-ro vessels in the future, STAX will need to reapply and request that this system be added to the EO.

**New In-Use Compliance Flexibility for Auxiliary Engines Across Vessel Types**

EO G-24-054-004 now allows more flexibility for in-use compliance testing when a system is approved for multiple vessel types. If a system is approved for auxiliary engine use on more than one vessel type (such as container, ro-ro, or tanker vessels), the required in-use compliance testing only needs to be done on one vessel type. Any of the approved vessel types may be used for the testing, as long as all in-use compliance deadlines are met. This change helps avoid repeating the same testing on different vessel types while still ensuring emissions controls are properly verified.

**Approval Duration**

STAX may operate under the terms specified in the EO for STAXbox 1-1 and any duplicates included in this EO as a CARB Approved Emission Control Strategy (CAECS) for five years from the date when the STAXbox 1-1 was approved (March 21, 2024) before needing to apply for an extension, as specified in section 93130.5(i)(1) of the 2020 At Berth Regulation.

### **Duplicate Systems**

For a future duplicate system(s) to be added as approved equipment on an EO, STAX will again need to submit information confirming that there are no modifications to design or operation for a future system(s) as compared to the existing approved equipment. Duplicate equipment must be identical to the STAXbox 1-1 (single train system) or the STAXbox 1-1 and STAXbox 1-2 (dual train system).

The Executive Officer may revoke the EO, or approval of any or all STAXbox system(s) listed as Approved Equipment in Attachment 1 of the EO, if the system fails to demonstrate that the expected emissions reductions are being achieved or if the STAXbox design or approved operating parameters are changed without prior notification and approval by the Executive Officer.

If you have any questions, please contact Angela Csondes, Manager, Marine Strategies Section, at [angela.csondes@arb.ca.gov](mailto:angela.csondes@arb.ca.gov).

Sincerely,

A handwritten signature in blue ink, appearing to read "Bonnie Soriano".

Bonnie Soriano, Chief, Freight Activity Branch, Transportation and Toxics Division

Attachment: EO G-24-054-004

cc: Angela Csondes, Section Manager, Marine Strategies Section