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ENVIRONMENTAL PROTECTION

AIR, ENERGY AND MATERIALS SUSTAINABILITY

DIVISION OF AIR QUALITY AND RADIATION PROTECTION

Notice of Opportunity for Public Comment on Draft State-of-the-Art (SOTA) Technical Manuals for Stationary Spark Ignition Reciprocating Internal Combustion Engines (SI RICE) and for Stationary Compression Ignition Reciprocating Internal Combustion Engines (CI RICE)

Take notice that the Department of Environmental Protection (Department) is seeking public comment on the proposed revisions of the existing State-of-the-Art (SOTA) technical manuals for Reciprocating Internal Combustion Engines (RICE SOTA Manual). Due to the different emission profiles and controls for spark and compression ignition engines, the Department proposes to separate the existing RICE SOTA Manual into two documents: one for Stationary Spark Ignition Reciprocating Internal Combustion Engines (SI RICE), and one for Stationary Compression Ignition Reciprocating Internal Combustion Engines (CI RICE). The use of these revised manuals will satisfy the requirements for advances in the art of air pollution control at N.J.A.C. 7:27-8.12 for preconstruction permits and N.J.A.C. 7:27-22.35 for operating permits.

N.J.S.A. 26:2C-9.2 requires newly constructed, reconstructed, or modified equipment and control apparatus to incorporate advances in the art of air pollution control as developed for the kind and amount of air contaminant emitted by the equipment and control apparatus. Advances in the art of air pollution control means up-to-date technology and methods in equipment, control apparatus, and procedures that, when applied to an emission source, shall reasonably minimize air contaminant emissions. The Department last updated the SOTA technical manual for Reciprocating Internal Combustion Engines in May 2003. The significant changes to the existing 2003 RICE SOTA Manual are as follows:

1. Separating the existing SOTA technical manual into two manuals: the spark ignition manual and the compression ignition manual;
2. Updating definitions to ensure consistency with Federal engine requirements;
3. Updating the control technologies to reflect current technologies used in New Jersey;
4. Including a discussion of alternative fuels;
5. Including a diagram and additional information regarding engine operation and types of engines; and
6. Revising emissions limits for engines to reflect current standards incorporated in New Jersey and other state air agency permits.

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The Department has determined that the technologies in these revised draft SOTA technical manuals represent up-to-date technology, methods, and performance levels for use by applicants in demonstrating the use of advances in the art of air pollution control.

The revised draft SOTA technical manuals for SI RICE and CI RICE can be found at the Department's website <https://dep.nj.gov/boss/public-notices/>. Submit written comments by close of business December 20, 2023. Please email comment(s) as an email or document attachment to: aqppls@dep.nj.gov. Please include "RICE SOTA" in the subject line of the email. The Department encourages electronic submittal of comments. In the alternative, comments may be submitted on paper to:

New Jersey Department of Environmental Protection
Attn: Joel Leon
Division of Air Quality
401 East State Street, 2nd Floor
Mail Code 401-02, PO Box 420
Trenton, New Jersey 08625-0420

After the close of the comment period, the Department will publish a notice in the New Jersey Register and on the Department's website informing the public whether the Department is issuing the revised manuals and, if so, how to obtain a copy, and whether the Department modified the manuals before issuing them.