

## 40 CFR Part 60, Subpart KKKK - Requirements Reference Tables

### Subpart KKKK Standards

- [§60.4310\(a\)](#) NO<sub>x</sub> exemption for emergency combustion turbines.
- [§60.4310\(b\)](#) NO<sub>x</sub> exemption for stationary combustion turbines engaged by manufacturers in research and development of equipment for both combustion turbine emission control techniques and combustion turbine efficiency improvements.
- [§60.4320\(a\)-Table 1|1](#) NO<sub>x</sub> emission limit (42 ppm at 15 percent O<sub>2</sub>) for new turbine firing natural gas with a heat input at peak load ≤ 50 MMBtu/h.
- [§60.4320\(a\)-Table 1|2](#) NO<sub>x</sub> emission limit (290 ng/J of useful output) for new turbine firing natural gas with a heat input at peak load ≤ 50 MMBtu/h.
- [§60.4320\(a\)-Table 1|3](#) NO<sub>x</sub> emission limit (100 ppm at 15 percent O<sub>2</sub>) for new mechanical drive turbine firing natural gas with a heat input at peak load ≤ 50 MMBtu/h.
- [§60.4320\(a\)-Table 1|4](#) NO<sub>x</sub> emission limit (690 ng/J of useful output) for new mechanical drive turbine firing natural gas with a heat input at peak load ≤ 50 MMBtu/h.
- [§60.4320\(a\)-Table 1|5](#) NO<sub>x</sub> emission limit (25 ppm at 15 percent O<sub>2</sub>) for new turbine firing natural gas with a heat input at peak load > 50 MMBtu/h and ≤ 850 MMBtu/h.
- [§60.4320\(a\)-Table 1|6](#) NO<sub>x</sub> emission limit (150 ng/J of useful output) for new turbine firing natural gas with a heat input at peak load > 50 MMBtu/h and ≤ 850 MMBtu/h.
- [§60.4320\(a\)-Table 1|7](#) NO<sub>x</sub> emission limit (15 ppm at 15 percent O<sub>2</sub>) for new, modified, or reconstructed turbine firing natural gas with a heat input at peak load > 850 MMBtu/h.
- [§60.4320\(a\)-Table 1|8](#) NO<sub>x</sub> emission limit (150 ng/J of useful output) for new, modified, or reconstructed turbine firing natural gas with a heat input at peak load > 850 MMBtu/h.
- [§60.4320\(a\)-Table 1|9](#) NO<sub>x</sub> emission limit (96 ppm at 15 percent O<sub>2</sub>) for new turbine firing fuel other than natural gas with a heat input at peak load ≤ 50 MMBtu/h.
- [§60.4320\(a\)-Table 1|10](#) NO<sub>x</sub> emission limit (1,100 ng/J of useful output) for new turbine firing fuels other than natural gas with a heat input at peak load ≤ 50 MMBtu/h.
- [§60.4320\(a\)-Table 1|11](#) NO<sub>x</sub> emission limit (150 ppm at 15 percent O<sub>2</sub>) for new mechanical drive turbine firing fuels other than natural gas with a heat input at peak load ≤ 50 MMBtu/h.
- [§60.4320\(a\)-Table 1|12](#) NO<sub>x</sub> emission limit (1,100 ng/J of useful output) for new mechanical drive turbine firing fuels other than natural gas with a heat input at peak load ≤ 50 MMBtu/h.
- [§60.4320\(a\)-Table 1|13](#) NO<sub>x</sub> emission limit (150 ppm at 15 percent O<sub>2</sub>) for new mechanical drive turbine firing fuels other than natural gas with a heat input at peak load ≤ 50 MMBtu/h.
- [§60.4320\(a\)-Table 1|14](#) NO<sub>x</sub> emission limit (460 ng/J of useful output) for new

mechanical drive turbine firing fuels other than natural gas with a heat input at peak load > 50 MMBtu/h and ≤ 850 MMBtu/h.

- [§60.4320\(a\)-Table 1|15](#) NOx emission limit (42 ppm at 15 percent O<sub>2</sub>) for new, modified, or reconstructed turbine firing natural gas with a heat input at peak load > 850 MMBtu/h.
- [§60.4320\(a\)-Table 1|16](#) NOx emission limit (160 ng/J of useful output) for new, modified, or reconstructed turbine firing natural gas with a heat input at peak load > 850 MMBtu/h.
- [§60.4320\(a\)-Table 1|17](#) NOx emission limit (150 ppm at 15 percent O<sub>2</sub>) for modified, or reconstructed turbine with a heat input at peak load ≤ 50 MMBtu/h.
- [§60.4320\(a\)-Table 1|18](#) NOx emission limit (1,100 ng/J of useful output) for modified, or reconstructed turbine with a heat input at peak load ≤ 50 MMBtu/h.
- [§60.4320\(a\)-Table 1|19](#) NOx emission limit (42 ppm at 15 percent O<sub>2</sub>) for modified, or reconstructed turbine firing natural gas with a heat input at peak load ≥ 50 MMBtu/h.
- [§60.4320\(a\)-Table 1|20](#) NOx emission limit (250 ng/J of useful output) for modified, or reconstructed turbine firing natural gas with a heat input at peak load ≥ 50 MMBtu/h.
- [§60.4320\(a\)-Table 1|21](#) NOx emission limit (96 ppm at 15 percent O<sub>2</sub>) for modified, or reconstructed turbine firing fuels other than natural gas with a heat input at peak load ≥ 50 MMBtu/h and ≤ 850 MMBtu/h.
- [§60.4320\(a\)-Table 1|22](#) NOx emission limit (590 ng/J of useful output) for modified, or reconstructed turbine firing fuels other than natural gas with a heat input at peak load ≥ 50 MMBtu/h and ≤ 850 MMBtu/h.
- [§60.4320\(a\)-Table 1|29](#) NOx emission limit (150 ppm at 15 percent O<sub>2</sub>) for turbines operating at less than 75 percent of peak load or operating at temperatures less than 0°F with ≤ 30 MW output.
- [§60.4320\(a\)-Table 1|30](#) NOx emission limit (1,100 ng/J of useful output) for turbines operating at less than 75 percent of peak load or operating at temperatures less than 0°F with ≤ 30 MW output.
- [§60.4320\(a\)-Table 1|31](#) NOx emission limit (96 ppm at 15 percent O<sub>2</sub>) for turbines operating at less than 75 percent of peak load or operating at temperatures less than 0°F with > 30 MW output.
- [§60.4320\(a\)-Table 1|32](#) NOx emission limit (590 ng/J of useful output) for turbines operating at less than 75 percent of peak load or operating at temperatures less than 0°F with > 30 MW output.
- [§60.4320\(a\)-Table 1|27](#) NOx emission limit (54 ppm at 15 percent O<sub>2</sub>) for heat recovery units operating independent of the combustion turbine.
- [§60.4320\(a\)-Table 1|28](#) NOx emission limit (1,100 ng/J of useful output) for heat recovery units operating independent of the combustion turbine.
- [§60.4330\(a\)\(1\)](#) SO<sub>2</sub> discharge emission limit 110 ng/J of gross output for the combustion turbine.
- [§60.4330\(a\)\(2\)](#) SO<sub>2</sub> emission limit for stationary combustion turbines for any fuel which contains total sulfur with potential sulfur emissions in excess of 26 ng SO<sub>2</sub>/J heat input. If your turbine simultaneously fires multiple fuels, each fuel must meet this requirement.

- [§60.4330\(a\)\(3\)](#) SO<sub>2</sub> emission limit for stationary combustion turbines burning at least 50% biogas on a calendar month basis, as determined based on total heat input.
- [§60.4330\(b\)\(1\)](#) SO<sub>2</sub> discharge emission limit 780 ng/J of gross output for the combustion turbine.
- [§60.4330\(b\)\(2\)](#) SO<sub>2</sub> emission limit for stationary combustion turbines for any fuel which contains total sulfur with potential sulfur emissions in excess of 180 ng SO<sub>2</sub>/J heat input. If your turbine simultaneously fires multiple fuels, each fuel must meet this requirement.

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