**Cut-and-Paste Acquisition Language for Commercial Boilers [Product Solicitation]**

**Statement of Work [*Include in solicitation AND contract language*]**

According to [*your organization’s*] goals to optimize energy performance at [*your site*], the Vendor shall ensure that the products supplied meet and/or exceed FEMP-designated guidelines. The following website provides the current requirements for FEMP-designated commercial boilers:<https://www.energy.gov/node/850751>

**Technical Specifications [*Include in solicitation AND contract language*]**

The Vendor shall supply commercial boilers that meet or exceed efficiency requirements for the most current FEMP-designated standards. View FEMP-designated standards for commercial boilers (as of June 2021) below or visit <https://www.energy.gov/node/850751> to see the most current standards.

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| TABLE 1. EFFICIENCY REQUIREMENTS FOR LARGE COMMERCIAL BOILERS |
| **Product Class** | **Rated Capacity** | **Fuel** | **Heating Medium** | **Efficiency\* (%)** |
| Large Gas-Fired Hot Water | >2,500,000 Btu/h and ≤10,000,000 Btu/h | Gas | Hot Water | Ec ≥ 95.0 |
| Large Gas-Fired Steam | >2,500,000 Btu/h and ≤10,000,000 Btu/h | Gas | Steam | Et ≥ 83.0 |
| Large Oil-Fired Hot Water | >2,500,000 Btu/h and ≤10,000,000 Btu/h | Oil | Hot Water | Ec ≥ 88.5 |
| Large Oil-Fired Steam | >2,500,000 Btu/h and ≤10,000,000 Btu/h | Oil | Steam | Et ≥ 85.5 |
| \*Both thermal efficiency (Et) and combustion efficiency (Ec) are based on 10 CFR Part 431.86 - Uniform test method for the measurement of energy efficiency of commercial packaged boilers. |

Commercial boilers that do not meet the FEMP-designated standards **will not** be considered for the bid.

**Document Requirements [*Include in solicitation AND contract language*]**

The Vendor shall submit manufacturer cut sheets for each model of commercial boilers supplied indicating an energy efficiency rating that meets or exceeds FEMP-designated standards.

**Evaluation Criteria**

[*Option 1*] The Vendor will be evaluated based on the Vendor’s ability to verify that all air-cooled electric chillers supplied under this contract meet or exceed FEMP-designated standards.

[*Option 2*] The Vendor will be evaluated based on Best Value as assessed through life cycle cost analysis. Vendors are required to provide the cost for each commercial boiler supplied using the life cycle cost formula below:

LCC = I + Repl − Res + E + W + OMR + X

where:

LCC = Total LCC in present-value dollars of a given alternative

I = Present-value investment costs

Repl = Present-value capital replacement costs

Res = Present-value residual value (resale value, scrap value, salvage value) less disposal costs

E = Present-value energy costs

W = Present-value water costs

OMR = Present-value non-fuel operating, maintenance, and repair costs

X = Present-value other costs (benefits treated as negative costs)

For more information on how to calculate life cycle cost, refer to <https://nvlpubs.nist.gov/nistpubs/hb/2020/NIST.HB.135-2020.pdf>

Reference: SF Tool Green Procurement Compilation - <https://sftool.gov/greenprocurement>