

|                                |  |  |            |           |
|--------------------------------|--|--|------------|-----------|
| CLIENT<br>Project (AFE)<br>No. |  |  | Job No.:   | 8122      |
| CLIENT DOC<br>No.              |  |  | Doc No.:   |           |
|                                |  |  | Revision:  | B         |
|                                |  |  | Rev. Date: | 5/16/2025 |

KYMEA METER STATION

DATA SHEET - HEATER

|  |                                 |           |
|--|---------------------------------|-----------|
| <input type="checkbox"/> ISSUE FOR REVIEW<br><input type="checkbox"/> DRAFT ISSUE FOR COMMENTS<br><input checked="" type="checkbox"/> ISSUE FOR BID<br><input type="checkbox"/> ISSUE FOR CLIENT APPROVAL<br><input type="checkbox"/> ISSUE FOR CONSTRUCTION – Rev 0<br><input type="checkbox"/> ISSUE AS REVISED DOCUMENT | <b>APPROVALS</b>                |           |
|  | <b>Mechanical Engineer</b>      | Date      |
|  | Andrew Roach                    | 5/16/2025 |
|  | <b>Project Manager</b>          | Date      |
|  | Byron Marlowe                   | 3/3/2025  |
|  | <b>Client - Project Manager</b> | Date      |

| Approvals:             |            |              |            |          |     |           |
|------------------------|------------|--------------|------------|----------|-----|-----------|
|                        | <b>By:</b> | <b>Date:</b> |            |          |     |           |
| <b>Initiator</b>       | CB         | 03/03/25     |            |          |     |           |
| <b>Process</b>         | N/A        |              |            |          |     |           |
| <b>Mechanical</b>      | CB         | 03/03/25     | Revisions: |          |     |           |
| <b>Civil</b>           | N/A        |              | Rev.:      | Date:    | By: | Approval: |
| <b>Electrical</b>      | DD         | 03/03/25     | A          | 03/03/25 | CB  | IFR       |
| <b>Instrumentation</b> | HO         | 03/03/25     | B          | 05/16/25 | AR  | IFB       |
| <b>Project Eng.</b>    | AR         | 05/16/25     |            |          |     |           |
| <b>Project Mgr.</b>    | BM         | 03/03/25     |            |          |     |           |
| <b>Client</b>          |            |              |            |          |     |           |

Reference Documents

Design Standard: Meter Station, EC-DS-007, Revision 1, 04/10/2019  
 EnSiteUSA P&ID

This document is solely for the use of the contractual Company and vendors of EnSiteUSA. EnSiteUSA assumes no liability to any other party for any representations contained in this document.

## Attachment A – Equipment Specification Sheet (Worksheet)

# Equipment Specification Sheet

|  |   |
|--|---|
| Point of Procurement                     | Rob Leesman, VP of Market Analytics<br>rleesman@kymea.org<br>Kentucky Municipal Energy Agency (KYMEDIA)<br>1700 Eastpoint Parkway Ste. 220<br>Louisville, KY 40223                              |
| Ship To                                  | KYMEDIA Energy Center I<br>Attn: Stan Conn<br>1957 AC Slaton Rd.<br>Madisonville, KY 42431  |
| Location Name:                           | KYMEDIA Meter Station - Madisonville, KY  |
| Heat Transfer Fluid:                     | To be specified by vendor   |
| Process Fluid:                           | Natural Gas (Specific Gravity: 0.614)   |
| Fuel Gas:                                | Natural Gas   |
| Fuel Gas Pressure (psig):                | 223   |
| Fuel Gas Temperature (°F Minimum):       | -4  |
| Fuel Gas Temperature (°F Maximum):       | 158   |
| Fuel Gas Flow (lbm/hr)                   | To be specified by vendor   |
| Process Gas Flow Rate, Minimum (SCFH):   | 75  |
| Process Gas Flow Rate, Maximum (lbm/hr): | 26,949  |
| Process Gas Inlet Pressure (psig):       | 965   |
| Inlet Temperature (°F, Minimum):         | -20   |
| Inlet Temperature (°F, Maximum):         | 104   |
| Ambient Temperature (°F, Minimum):       | -20   |
| Ambient Temperature (°F, Maximum):       | 110   |
| Relative Humidity:                       | 70%   |
| Design Pressure (psig):                  | 965   |
| LHV (Btu/lb):                            | 20,624  |
| Site Elevation (Feet Above Sea Level):   | 410   |
| Rating of Connection Flanges:            | 600   |
| Inlet Connection Size:                   | 6" RF   |
| Outlet Connection Size:                  | 6" RF   |
| Outlet Temperature Required (°F):        | -4 Min, 158 Max   |
| Maximum Noise (dB) at 3ft                | 85  |
| Power Available:                         | <input checked="" type="checkbox"/> 120 VAC <input checked="" type="checkbox"/> 240 VAC <input checked="" type="checkbox"/> 24 VDC <input type="checkbox"/> None <input type="checkbox"/> Other |

Process gas heater shall be indirect fired water-bath heater.

Expansion Tank, Console Shutdown Panel, and Low Liquid Level Sensor shall be included.

On systems over 500 MBTU, an Automatic Relighter shall be included.

## Optional Equipment

Check the following boxes to indicate any additional equipment required for this installation (to be supplied by the Heater Manufacturer):

- ☐ Beveled Pipe Process Connections
- ☒ Flanged Process Connections
- ☐ Solar Panel for Power
- ☐ Heater Bypass
- ☐ ESD Shutdown
- ☒ Automatic Relighter
- ☒ Temperature Control on Product Outlet
- ☒ PLC based control panel for heater start sequencing, combustion and pilot ignition control, safety instrumentation, water bath based temperature control and BMS