## Appendix C.  Equipment Data Sheet Examples

**Motor Data Sheet**

|  |  |  |
| --- | --- | --- |
| Data Sheet No.: EDS - XXXXXX | Rev.:  | Specification No.:  |
| Project ID: | Project Title:  |
| TA- | Facility No.: | Facility Name: |
| Equipment ID: | Equipment Name:  |
| Selection: | Manufacturer: | Model No.: |
|  | Prepared By | Checked By | Approved By |
| Name |  |  |  |
| Z Number |  |  |  |
| Signature |  |  |  |
| Date |  |  |  |
| **Specification** |
| Rated HP |  | NEMA Design Letter |  |
| Volts/Phase/Hz |  | Starting Torque, lb-ft |  |
| Locked Rotor Current, Amps. |  | Pull-out Torque, lb-ft |  |
| Temperature Rise, o F |  | Duty Rating |  |
| Locked Rotor KVA Code |  | Sound Level |  |
| Full Load Torque, lb-ft |  | Bearings |  |
| Rotation Facing Coupling |  | Lubrication |  |
| Electrical Type |  | Insulation |  |
| Enclosure |  | Couplings Furnished By |  |
| Altitude above sea level, ft |  | Base Furnished By |  |
| Full Load Current, Amps |  | Non-Standard Mount or Extension |  |
| Ambient Temperature, o F |  |  |  |
| **Performance** |
| Power Factor Percent |  | Efficiency Percent |  |
|  |  |  |  |
| **General Information** |
| Serial Number |  | Frame Number |  |
|  |  |  |  |
| **Type Mounting** |
| Foot, Face, or Flanged |  | Ceiling, Floor, or Wall |  |
| Horizontal or Vertical |  |  |  |

* **Remarks:** Motor shall comply with applicable NEMA Standards

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| **Furnish the following manufacturer’s data in the quantities indicated** | **NUMBER OF COPIES** |
| With Bids | Approved | Certified |
| 1. Outline dimensional drawings |  |  |  |
| 2. Operational and performance data |  |  |  |
| 3. Literature and parts list |  |  |  |
| 4. Operating and maintenance instructions |  |  |  |
| 5. Installation instructions |  |  |  |
| 6. Test and inspection reports |  |  |  |
| 7. Materials Certification |  |  |  |

**Heat Exchanger Data Sheet**

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| Data Sheet No.: EDS - XXXXXX | Rev.:  | Specification No.:  |
| Project ID: | Project Title:  |
| TA- | Facility No.: | Facility Name: |
| Equipment ID | Equipment Name:  |
| Selection: | Manufacturer: | Model No.: |
|  | Prepared By | Checked By | Approved By |
| Name |  |  |  |
| Z Number |  |  |  |
| Signature |  |  |  |
| Date |  |  |  |
| **Specification** |
| Type of Exchanger | Shell and Tube | Plate and Frame | Other  |
| Parameter | Fluid 1 | Fluid 2 | Parameter | Fluid 1 | Fluid 2 |
| Fluid Circulated |  |  | Specific Heat, Btu/lb F |  |  |
| Vapor, lb/hr |  |  | Thermal Conductivity. Btu/hr ft F |  |  |
| Liquid, lb/hr. |  |  | Latent Heat, Btu/lb |  |  |
| Liquid Vaporized, Ib/hr |  |  | Temperature, F |  |  |
| Vapor Molecular Weight |  |  | Operating pressure, psig |  |  |
| Viscosity, cP |  |  | Allowable pressure drop, psig |  |  |
|  |  |  |  |  |  |
| Fouling Resistance: |
| Heat Transferred, Btu/hr |
|  |
| **Construction** |
| TEMA Class |
| **Shell and Tube Configuration** |
| Front End Head Type: | Shell Type: | Rear End Head Type: |
| Design Pressure, psig | Design Temperature, F |
| Tube Material | Shell Material |
| **Corrosion Allowance:** |
| **Code Requirements** |
| **Remarks:** |

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| 4. Operating and maintenance instructions |  |  |  |
| 5. Installation instructions |  |  |  |
| 6. Test and inspection reports |  |  |  |
| 7. Materials Certification |  |  |  |
| 8. |  |  |  |

**Pump Data Sheet**

|  |  |  |
| --- | --- | --- |
| Data Sheet No.: EDS - XXXXXX | Rev.:  | Specification No.:  |
| Project ID: | Project Title:  |
| TA- | Facility No.: | Facility Name: |
| Equipment ID | Equipment Name:  |
| Selection: | Manufacturer: | Model No.: |
|  | Prepared By | Checked By | Approved By |
| Name |  |  |  |
| Z Number |  |  |  |
| Signature |  |  |  |
| Date |  |  |  |
| **General** |
| Type of Pump |  | Driver |  |
| **Fluid Data** |
| Fluid Pumped |  | Viscosity @ Pumping Temperature, Cp |  |
| Specific Gravity |  | Vapor Pressure@ Pumping Temperature, psia |  |
| Solids, WT% |  |  |  |
| Pumping Temperature, F |  |  |  |
|  |  |  |  |
| **Design Data** |
| Design Capacity, gpm |  | Total Discharge Pressure, psig |  |
| Differential Pressure, psi |  | Pump Speed, rpm |  |
| Differential Pressure, ft |  | Efficiency, % |  |
| NPSH Available, ft |  | Brake Horsepower, bhp |  |
| **Mechanical Data** |
| Material – Case |  | Suction Nozzle – size, rating |  |
| Material – Impellor, Piston, Diaphragm |  | Discharge Nozzle – size, rating |  |
| Seal Type |  |  |  |
| **Driver** |
| Driver Horsepower, hp |  | Motor Data Sheet |  |
| Motor Type |  |  |  |
| **Remarks:** |

|  |  |
| --- | --- |
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| 2. Operational and performance data |  |  |  |
| 3. Literature and parts list |  |  |  |
| 4. Operating and maintenance instructions |  |  |  |
| 5. Installation instructions |  |  |  |
| 6. Test and inspection reports |  |  |  |
| 7. Materials Certification |  |  |  |
| 8. |  |  |  |

**Fan and Blower Data Sheet**

|  |  |  |
| --- | --- | --- |
| Data Sheet No.: EDS - XXXXXX | Rev.:  | Specification No.:  |
| Project ID: | Project Title:  |
| TA- | Facility No.: | Facility Name: |
| Equipment ID | Equipment Name:  |
| Selection: | Manufacturer: | Model No.: |
|  | Prepared By | Checked By | Approved By |
| Name |  |  |  |
| Z Number |  |  |  |
| Signature |  |  |  |
| Date |  |  |  |
| **Gas Data** |
| Gas Name |  | Corrosives |  |
| Molecular Weight |  |  |  |
| **Design Data** |
| Capacity scfm |  | Relative Humidity of Gas |  |
| Capacity acfm |  | Normal Inlet Temperature, F |  |
| Elevation above sea level, ft |  | Minimum Inlet Temperature, F |  |
| Specific Gravity of Gas |  | Differential Pressure, in. wg. |  |
| **Mechanical Data** |
| Fan Type: |  | Blade Type |  |
| Fan Inlet Type |  | Fan Motor Location |  |
| Fan Class |  | Rotation and Discharge |  |
| Fan Arrangement |  | Wheel Construction |  |
| Inlet Size, in |  | Sound Level |  |
| Outlet Size, in |  | Drain |  |
| **Materials** |
| Housing Material |  | Hub |  |
| Housing Material Thickness |  | Shaft |  |
| Blade Material |  | Shaft Sleeves |  |
| Blade Material Thickness |  |  |  |
| **Control** |
| Outlet Dampers |  | Variable Speed Drive |  |
| Variable Inlet Vanes |  | Variable Pitch Blades |  |
| **Control Power** |
| Volts |  | Phase |  |
| Hertz |  | Electrical Hazard Class |  |
| **Tests** |
| Mechanical Run-in |  | Witness Performance |  |
| Non-Witnessed Performance |  |  |  |

**Fan and Blower Data Sheet (CONT’D)**

|  |
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| **Included Items** |
| Common Base Plate |  | Silencer |  |
| Inlet Screen/ Filter |  | Ducting Transition Piece |  |
| Control Panel |  | Housing Drain Connection |  |
| Spark Resistant Construction |  | Vibration Isolation |  |
| Insulation Studs |  | Sectional Drawing |  |
| Special Coatings |  | Inspection Access Panel |  |
| Inlet Box |  | Paint |  |
| **Driver** |
| Driver Horsepower, hp |  | Motor Data Sheet |  |
| Motor Type |  |  |  |
| **Remarks:** |

|  |  |
| --- | --- |
| **Furnish the following manufacturer’s data in the quantities indicated** | **NUMBER OF COPIES** |
| With Bids | Approved | Certified |
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| 2. Operational and performance data |  |  |  |
| 3. Literature and parts list |  |  |  |
| 4. Operating and maintenance instructions |  |  |  |
| 5. Installation instructions |  |  |  |
| 6. Test and inspection reports |  |  |  |
| 7. Materials Certification |  |  |  |
| 8. Performance Curves |  |  |  |
| 9. |  |  |  |
| 10. |  |  |  |