

| <b>Document Data Sheet</b><br><br>Sheet 1 of 11                                                                                                        | Project Number                                                                                                                                                                                          |                           | Contractor Document Number |       | Revision               |          |  |  |
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|                                                                                                                                                        | Item Number                                                                                                                                                                                             |                           | Purchaser Document Number  |       | Rev. Date              |          |  |  |
|                                                                                                                                                        |                                                                                                                                                                                                         |                           |                            |       | Revision               |          |  |  |
|                                                                                                                                                        |                                                                                                                                                                                                         |                           |                            |       | Rev. Date              |          |  |  |
| Description                                                                                                                                            | Cross Reference                                                                                                                                                                                         | Requirement / Information |                            |       |                        | Comments |  |  |
|                                                                                                                                                        | Clause                                                                                                                                                                                                  | Stage                     |                            |       | Responsibility         |          |  |  |
|                                                                                                                                                        |                                                                                                                                                                                                         | Tender                    | Contract                   | Final | Purchaser / Contractor |          |  |  |
| <b>PERFORMANCE AT SITE CONDITIONS</b>                                                                                                                  | <b>5</b>                                                                                                                                                                                                |                           |                            |       |                        |          |  |  |
| Implications for operation at peak load (Option)                                                                                                       | 5.1.4                                                                                                                                                                                                   | I                         |                            |       | C                      |          |  |  |
| Required corrections for performance ratings                                                                                                           | 5.3                                                                                                                                                                                                     | I                         |                            |       | P                      |          |  |  |
|                                                                                                                                                        |                                                                                                                                                                                                         |                           |                            |       |                        |          |  |  |
| <b>SITE CONDITIONS AND UTILITIES</b>                                                                                                                   | <b>6</b>                                                                                                                                                                                                |                           |                            |       |                        |          |  |  |
| Wind rose                                                                                                                                              | 6.1                                                                                                                                                                                                     | I                         |                            |       | P                      |          |  |  |
| Site map                                                                                                                                               | 6.1                                                                                                                                                                                                     | I                         |                            |       | P                      |          |  |  |
| Details of conditions where hot, dust bearing winds may be present                                                                                     | 6.1                                                                                                                                                                                                     | I                         |                            |       | P                      |          |  |  |
| Water requirement (supply pressure, temperature and flow) against each applicable usage and the required water quality for all water types             | 6.2                                                                                                                                                                                                     | I                         |                            |       | C                      |          |  |  |
| Steam requirement (supply pressure, temperature and flow and return flow if any) against each applicable usage and the required steam quality          | 6.3                                                                                                                                                                                                     | I                         |                            |       | C                      |          |  |  |
| Purge media requirement against each applicable usage for each start-up and shutdown cycle and the purge media quality                                 | 6.4                                                                                                                                                                                                     | I                         |                            |       | C                      |          |  |  |
| Interface, termination and utility connection details and locations for all applicable interfaces for the power generation package                     | 6.5                                                                                                                                                                                                     | I                         |                            |       | P                      |          |  |  |
| Provide the location and details of all the applicable interface connections points in the scope of supply                                             | 6.5                                                                                                                                                                                                     | I                         |                            |       | C                      |          |  |  |
| Advise the location of any existing or proposed cooling towers or other known equipment that may impact gas turbine package performance or air quality | 6.6                                                                                                                                                                                                     | I                         |                            |       | P                      |          |  |  |
|                                                                                                                                                        |                                                                                                                                                                                                         |                           |                            |       |                        |          |  |  |
| <b>DISCHARGES AND EMISSIONS</b>                                                                                                                        | <b>7</b>                                                                                                                                                                                                |                           |                            |       |                        |          |  |  |
| Provide a full inventory of fluids within the gas turbine package and its auxiliary systems and containment methods                                    | 7.2                                                                                                                                                                                                     |                           | A                          |       | C                      |          |  |  |
| Provide functional requirements for detailed design of containment systems (e.g. bunding) not included in the scope of supply                          | 7.2                                                                                                                                                                                                     |                           | A                          |       | C                      |          |  |  |
| Provide the predicted or measured sound pressure and sound power level noise spectrum (Option)                                                         | 7.3.1                                                                                                                                                                                                   |                           | I                          |       | C                      |          |  |  |
| Near field noise levels shall be measured                                                                                                              | 7.3.1                                                                                                                                                                                                   |                           | I                          |       | C                      |          |  |  |
| Provide estimated sound levels inside the gas turbine enclosure (Option)                                                                               | 7.3.3                                                                                                                                                                                                   |                           | A                          |       | C                      |          |  |  |
| Provide relevant environmental regulations and restrictions existing or being developed                                                                | 7.4.2                                                                                                                                                                                                   |                           | A                          |       | P                      |          |  |  |
| Provide a prediction of the start-up emissions from ignition to full load for NOx and CO for all start conditions and fuels (Option)                   | 7.4.4                                                                                                                                                                                                   |                           | A                          |       | C                      |          |  |  |
| Provide estimation and/or measurement of visibility of exhaust stack and oil demister vent plumes                                                      | 7.8                                                                                                                                                                                                     |                           | A                          |       | C                      |          |  |  |
|                                                                                                                                                        |                                                                                                                                                                                                         |                           |                            |       |                        |          |  |  |
| <b>CONTRACT FUELS</b>                                                                                                                                  | <b>8</b>                                                                                                                                                                                                |                           |                            |       |                        |          |  |  |
| Gas turbine capable of running on both gas or liquid fuels with on load fuel changeover (Option)                                                       | 8.2                                                                                                                                                                                                     | I                         |                            |       | C                      |          |  |  |
| Supply advice on the capability to provide mixed co-fired fuel operation and maintenance penalties and any operating restrictions (Option)             | 8.2                                                                                                                                                                                                     | I                         |                            |       | C                      |          |  |  |
|                                                                                                                                                        |                                                                                                                                                                                                         |                           |                            |       |                        |          |  |  |
|                                                                                                                                                        |                                                                                                                                                                                                         |                           |                            |       |                        |          |  |  |
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|                                                                                                                                                        |                                                                                                                                                                                                         |                           |                            |       |                        |          |  |  |
| Notes for use                                                                                                                                          | 1. In the Stage columns the use of the letter 'I' = Information and the letter 'A' = Approval<br>2. In the Responsibility columns the use of the letter 'P' = Purchaser and the letter 'C' = Contractor |                           |                            |       |                        |          |  |  |
| GENERAL COMMENTS                                                                                                                                       |                                                                                                                                                                                                         |                           |                            |       |                        |          |  |  |

| <b>Document Data Sheet</b><br><br>Sheet 2 of 11                                                                                                     | Project Number                                                                                                                                                                                          |                           | Contractor Document Number |       | Revision               |          |  |  |
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| Description                                                                                                                                         | Cross Reference                                                                                                                                                                                         | Requirement / Information |                            |       |                        | Comments |  |  |
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|                                                                                                                                                     |                                                                                                                                                                                                         | Tender                    | Contract                   | Final | Purchaser / Contractor |          |  |  |
| <b>CONTRACT FUELS (continued)</b>                                                                                                                   | <b>8</b>                                                                                                                                                                                                |                           |                            |       |                        |          |  |  |
| Define the fuel types and ranges of fuel qualities acceptable for the gas turbine application and use for both fuel gas and distillate fuel oil     | 8.3                                                                                                                                                                                                     | I                         |                            |       | C                      |          |  |  |
| Document technical measures to upgrade the combustor, hot gas path components or fuel supply system to cope with out-of-specification fuel (Option) | 8.3                                                                                                                                                                                                     | I                         |                            |       | C                      |          |  |  |
| Advise the economic impact of out-of-specification fuels in terms of reduced maintenance intervals and components at risk                           | 8.3                                                                                                                                                                                                     | I                         |                            |       | C                      |          |  |  |
| Fuel supply requirements including minimum and maximum pressure, the limits for temperature, the minimum flow rate(s) at the terminal point         | 8.4                                                                                                                                                                                                     | I                         |                            |       | C                      |          |  |  |
| If Contractor's fuel supply requirements not met, Contractor to document technical measures to meet the delivery conditions (Option)                | 8.4                                                                                                                                                                                                     | I                         |                            |       | C                      |          |  |  |
| Provide composition and supply condition details for a non-standard fuel (Option)                                                                   | 8.5                                                                                                                                                                                                     | I                         |                            |       | P                      |          |  |  |
| Contractor shall state the fleet experience and impact on maintenance, performance, component integrity for non-standard fuel (Option)              | 8.5                                                                                                                                                                                                     | I                         |                            |       | C                      |          |  |  |
| Fuels that cause uncontrolled ignition an alternative start-up fuel-up fuels may be required and the Contractor shall propose a start-up fuel       | 8.5                                                                                                                                                                                                     | I                         |                            |       | C                      |          |  |  |
| Advice for low energy fuel gas including, start-up fuel, limits to inert gases, fuel system modifications, auxiliary system modifications           | 8.5                                                                                                                                                                                                     | I                         |                            |       | C                      |          |  |  |
| <b>FUEL SYSTEMS AND TREATMENT</b>                                                                                                                   | <b>9</b>                                                                                                                                                                                                |                           |                            |       |                        |          |  |  |
| Documentation cover gas fuel compressor (Option)                                                                                                    | 9.2                                                                                                                                                                                                     | I                         |                            |       | C                      |          |  |  |
| Where applicable, the location of a suitably sized liquid fuel pump (skid) shall be advised (Option)                                                | 9.3                                                                                                                                                                                                     | I                         |                            |       | P                      |          |  |  |
| Heating requirement prior to pumping and the recommended heat source for fuels that might approach their pour point whilst not in operation         | 9.6                                                                                                                                                                                                     | I                         |                            |       | C                      |          |  |  |
| Details, if applicable, of modifications required for alternative fuel running                                                                      | 9.7                                                                                                                                                                                                     | I                         |                            |       | C                      |          |  |  |
| Details of capability for mixed fuel co-fired operation. Supply the permissible flow splits utilizing these fuels and the specific modifications.   | 9.8                                                                                                                                                                                                     | I                         |                            |       | C                      |          |  |  |
| Details of the igniter fuel type (e.g. natural gas or propane), pressure and flow and the storage capacity required                                 | 9.9                                                                                                                                                                                                     | I                         |                            |       | C                      |          |  |  |
| Details, if applicable, of alternative fuel for start-up, changeover and shutdown                                                                   | 9.10                                                                                                                                                                                                    | I                         |                            |       | C                      |          |  |  |
| Details, if applicable, of water-steam requirements for emission control or power enhancement                                                       | 9.11                                                                                                                                                                                                    | I                         |                            |       | C                      |          |  |  |
| Details of the purge media type, quality and consumption rate                                                                                       | 9.12                                                                                                                                                                                                    | I                         |                            |       | C                      |          |  |  |
| Install on-line component analysis of the fuel gas by chromatography on the fuel supply (Option)                                                    | 9.13                                                                                                                                                                                                    |                           | I                          |       | C                      |          |  |  |
| Details, if applicable, of specialized non-metallic flexible hoses                                                                                  | 9.14.3                                                                                                                                                                                                  | A                         |                            |       | C                      |          |  |  |
|                                                                                                                                                     |                                                                                                                                                                                                         |                           |                            |       |                        |          |  |  |
|                                                                                                                                                     |                                                                                                                                                                                                         |                           |                            |       |                        |          |  |  |
|                                                                                                                                                     |                                                                                                                                                                                                         |                           |                            |       |                        |          |  |  |
|                                                                                                                                                     |                                                                                                                                                                                                         |                           |                            |       |                        |          |  |  |
|                                                                                                                                                     |                                                                                                                                                                                                         |                           |                            |       |                        |          |  |  |
|                                                                                                                                                     |                                                                                                                                                                                                         |                           |                            |       |                        |          |  |  |
| Notes for use                                                                                                                                       | 1. In the Stage Columns the use of the letter 'I' = Information and the letter 'A' = Approval<br>2. In the Responsibility Columns the use of the letter 'P' = Purchaser and the letter 'C' = Contractor |                           |                            |       |                        |          |  |  |
| GENERAL COMMENTS                                                                                                                                    |                                                                                                                                                                                                         |                           |                            |       |                        |          |  |  |

| <b>Document Data Sheet</b><br><br>Sheet 3 of 11                                                                                                                | Project Number                                                                                                                                                                                          |                           | Contractor Document Number |       | Revision               |          |  |  |
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| Description                                                                                                                                                    | Cross Reference                                                                                                                                                                                         | Requirement / Information |                            |       |                        | Comments |  |  |
|                                                                                                                                                                | Clause                                                                                                                                                                                                  | Stage                     |                            |       | Responsibility         |          |  |  |
|                                                                                                                                                                |                                                                                                                                                                                                         | Tender                    | Contract                   | Final | Purchaser / Contractor |          |  |  |
| <b>REGULATIONS, CODES AND STANDARDS</b>                                                                                                                        | <b>10</b>                                                                                                                                                                                               |                           |                            |       |                        |          |  |  |
| Details of all the applicable regulations and legislation                                                                                                      | 10.1                                                                                                                                                                                                    | I                         |                            |       | P                      |          |  |  |
| List of major compliant standards                                                                                                                              | 10.2                                                                                                                                                                                                    | I                         |                            |       | C                      |          |  |  |
| Documentation of proposed method for independent assessment (Option)                                                                                           | 10.3                                                                                                                                                                                                    | I                         |                            |       | C                      |          |  |  |
| Variation to documentation of proposed method for independent assessment (Option)                                                                              | 10.3                                                                                                                                                                                                    |                           | A                          | A     | P                      |          |  |  |
|                                                                                                                                                                |                                                                                                                                                                                                         |                           |                            |       |                        |          |  |  |
| <b>OPERATING REQUIREMENTS</b>                                                                                                                                  | <b>11</b>                                                                                                                                                                                               |                           |                            |       |                        |          |  |  |
| Operating restrictions between MCR and MEL                                                                                                                     | 11.2                                                                                                                                                                                                    | I                         |                            |       | C                      |          |  |  |
| Operating restrictions for extended operation at peak load                                                                                                     | 11.2                                                                                                                                                                                                    | I                         |                            |       | C                      |          |  |  |
| Operating and technical limitations that apply from operating for extended periods at MEL                                                                      | 11.3                                                                                                                                                                                                    | I                         |                            |       | C                      |          |  |  |
| Constraints on the number of repeated starts on the gas turbine, declare where constraint applies                                                              | 11.3                                                                                                                                                                                                    | I                         |                            |       | C                      |          |  |  |
| State loading rate synch to MCR and deloading MCR to synch                                                                                                     | 11.4                                                                                                                                                                                                    | I                         |                            |       | C                      |          |  |  |
| Provide the expected load / emission overshoots during ramping (Option)                                                                                        | 11.4                                                                                                                                                                                                    | I                         |                            |       | C                      |          |  |  |
| Identify the applicable grid code and restrictions to grid code requirements                                                                                   | 11.5                                                                                                                                                                                                    | I                         |                            |       | P                      |          |  |  |
| Offsite remote control function (Option)                                                                                                                       | 11.7                                                                                                                                                                                                    | I                         |                            |       | P                      |          |  |  |
| Island mode requirement (Option)                                                                                                                               | 11.9                                                                                                                                                                                                    | I                         |                            |       | P                      |          |  |  |
| Black grid restoration requirement (Option)                                                                                                                    | 11.10                                                                                                                                                                                                   |                           | I                          |       | P                      |          |  |  |
|                                                                                                                                                                |                                                                                                                                                                                                         |                           |                            |       |                        |          |  |  |
| <b>QUALITY</b>                                                                                                                                                 | <b>12</b>                                                                                                                                                                                               |                           |                            |       |                        |          |  |  |
| Project quality planning (PQP)                                                                                                                                 | 12.1.3                                                                                                                                                                                                  |                           | A                          |       | C                      |          |  |  |
| Variations to PQP                                                                                                                                              | 12.1.3                                                                                                                                                                                                  |                           | A                          |       | P                      |          |  |  |
| Quality control plan (QCP)                                                                                                                                     | 12.1.4                                                                                                                                                                                                  |                           | A                          |       | C                      |          |  |  |
| Inspection and test plan (ITP)                                                                                                                                 | 12.1.5                                                                                                                                                                                                  |                           | A                          |       | C                      |          |  |  |
| Purchaser witness points on (ITP)                                                                                                                              | 12.1.5                                                                                                                                                                                                  |                           | A                          |       | P                      |          |  |  |
| List of major sub-suppliers                                                                                                                                    | 12.2.1                                                                                                                                                                                                  | A                         |                            |       | C                      |          |  |  |
| Details of independent inspection authority (Option)                                                                                                           | 12.2.3                                                                                                                                                                                                  |                           | I                          |       | P                      |          |  |  |
| Quality control record (QCR)                                                                                                                                   | 12.2.4                                                                                                                                                                                                  |                           |                            | A     | P                      |          |  |  |
| Project design reviews reports                                                                                                                                 | 12.2.7                                                                                                                                                                                                  |                           | I                          |       | C                      |          |  |  |
|                                                                                                                                                                |                                                                                                                                                                                                         |                           |                            |       |                        |          |  |  |
| <b>RELIABILITY, AVAILABILITY, MAINTAINABILITY</b>                                                                                                              | <b>13</b>                                                                                                                                                                                               |                           |                            |       |                        |          |  |  |
| Basic RAM assessment covering reliability, starting reliability, availability and maintainability                                                              | 13.1.1 to 13.1.5 incl.                                                                                                                                                                                  | I                         |                            |       | C                      |          |  |  |
| Spares holding to support RAM requirements                                                                                                                     | 13.1.6                                                                                                                                                                                                  |                           | I                          |       | C                      |          |  |  |
| Operator log requirements to ISO 3977-9:1999                                                                                                                   | 13.1.7                                                                                                                                                                                                  |                           | I                          |       | C                      |          |  |  |
| RAM report with additional assessment for forced outage factor (FOF), equivalent forced outage factor (EFOF) and equivalent availability factor (EAF) (Option) | 13.2, 13.2.2, 13.2.3                                                                                                                                                                                    |                           | I                          |       |                        |          |  |  |
| Equivalent operating hours (EOH) (Option)                                                                                                                      | 13.2.4                                                                                                                                                                                                  |                           | I                          |       | C                      |          |  |  |
|                                                                                                                                                                |                                                                                                                                                                                                         |                           |                            |       |                        |          |  |  |
| <b>SAFETY REQUIREMENTS</b>                                                                                                                                     | <b>14</b>                                                                                                                                                                                               |                           |                            |       |                        |          |  |  |
| Results of the assessments                                                                                                                                     | 14.2                                                                                                                                                                                                    |                           |                            | I     | P                      |          |  |  |
| Identified residual risks                                                                                                                                      | 14.2                                                                                                                                                                                                    |                           |                            | I     | P                      |          |  |  |
| Details of any local regulations that dictate special requirements for fire systems                                                                            | 14.3.1                                                                                                                                                                                                  | I                         |                            |       | P                      |          |  |  |
| Hazardous area drawing covering the equipment within the scope of ISO 19859                                                                                    | 14.4                                                                                                                                                                                                    |                           | I                          |       | C                      |          |  |  |
|                                                                                                                                                                |                                                                                                                                                                                                         |                           |                            |       |                        |          |  |  |
|                                                                                                                                                                |                                                                                                                                                                                                         |                           |                            |       |                        |          |  |  |
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| GENERAL COMMENTS                                                                                                                                               |                                                                                                                                                                                                         |                           |                            |       |                        |          |  |  |

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| Sheet 4 of 11                                                                                                                                                                                  |                                                                                                                                                                                                         |                           |          |       |                                             |          |  |           |  |
| Description                                                                                                                                                                                    | Cross<br>Reference                                                                                                                                                                                      | Requirement / Information |          |       |                                             |          |  |           |  |
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| <b>SAFETY REQUIREMENTS (continued)</b>                                                                                                                                                         | <b>14</b>                                                                                                                                                                                               |                           |          |       |                                             |          |  |           |  |
| Details of smoke detectors for control room computer/instrumentation equipment (Option)                                                                                                        | 14.7                                                                                                                                                                                                    | I                         |          |       | C                                           |          |  |           |  |
| Risk reduction document demonstrating prevention of incorrect hydraulic oil system operation due to the build up of varnish contamination where a common lube and hydraulic oil system is used | 14.10                                                                                                                                                                                                   | I                         |          |       | C                                           |          |  |           |  |
| Fuel system pressure test procedure                                                                                                                                                            | 14.11                                                                                                                                                                                                   |                           | I        |       | C                                           |          |  |           |  |
| Details of all hazardous materials and the justification for their use                                                                                                                         | 14.14                                                                                                                                                                                                   |                           | I        |       | C                                           |          |  |           |  |
| Details of assessment process that identifies the extent of overspeed protection system                                                                                                        | 14.15                                                                                                                                                                                                   |                           | I        |       | C                                           |          |  |           |  |
| Documentation of mitigation measures from HAZID/HAZOP hazard study                                                                                                                             | 14.17                                                                                                                                                                                                   |                           | I        |       | P                                           |          |  |           |  |
| <b>MEASUREMENT, LANGUAGE, IDENTIFICATION AND STANDARDIZATION</b>                                                                                                                               | <b>15</b>                                                                                                                                                                                               |                           |          |       |                                             |          |  |           |  |
| Propose an equipment numbering and nomenclature system                                                                                                                                         | 15.3                                                                                                                                                                                                    |                           | A        |       | C                                           |          |  |           |  |
| Variations required to the Contractor's proposal and any specific additional requirements                                                                                                      | 15.3                                                                                                                                                                                                    |                           | A        |       | P                                           |          |  |           |  |
| <b>CORROSION PREVENTION, PAINTING AND FINISHING</b>                                                                                                                                            | <b>16</b>                                                                                                                                                                                               |                           |          |       |                                             |          |  |           |  |
| Corrosion prevention measures (paint specification)                                                                                                                                            | 16.1                                                                                                                                                                                                    | I                         |          |       | C                                           |          |  |           |  |
| Details of all the colours used for all major items of equipment                                                                                                                               | 16.1                                                                                                                                                                                                    | I                         |          |       | C                                           |          |  |           |  |
| Purchaser requirements of special colours to be used for specific items of equipment (Option)                                                                                                  | 16.1                                                                                                                                                                                                    | I                         |          |       | P                                           |          |  |           |  |
| Purchaser variations to painting requirements (Option)                                                                                                                                         | 16.2.1                                                                                                                                                                                                  | I                         |          |       | P                                           |          |  |           |  |
| Health and safety data sheets for the paint products                                                                                                                                           | 16.2.6                                                                                                                                                                                                  |                           | I        |       | C                                           |          |  |           |  |
| Purchaser requirements for inspection and test of buried and submerged coatings (Option)                                                                                                       | 16.2.8                                                                                                                                                                                                  | I                         |          |       | P                                           |          |  |           |  |
| <b>PACKING AND TRANSPORTATION</b>                                                                                                                                                              | <b>17</b>                                                                                                                                                                                               |                           |          |       |                                             |          |  |           |  |
| Procedure for storage > 6 months (Option)                                                                                                                                                      | 17.1                                                                                                                                                                                                    |                           | I        |       | C                                           |          |  |           |  |
| Details of storage facilities on site                                                                                                                                                          | 17.1                                                                                                                                                                                                    |                           | I        |       | P                                           |          |  |           |  |
| Instructions for integrity of storage preservation                                                                                                                                             | 17.1                                                                                                                                                                                                    |                           | I        |       | C                                           |          |  |           |  |
| Define precautions to be considered to avoid compromising the health and safety of personnel or the integrity of the equipment during storage                                                  | 17.1                                                                                                                                                                                                    |                           | I        |       | C                                           |          |  |           |  |
| A shipping list covering all major items                                                                                                                                                       | 17.1                                                                                                                                                                                                    |                           | I        |       | C                                           |          |  |           |  |
| Limitations of transportation and cranes at site                                                                                                                                               | 17.3                                                                                                                                                                                                    |                           | I        |       | P                                           |          |  |           |  |
| <b>GAS TURBINE CORE</b>                                                                                                                                                                        | <b>18</b>                                                                                                                                                                                               |                           |          |       |                                             |          |  |           |  |
| Provide algorithm(s) for modifying component lives that are a function of operating parameters                                                                                                 | 18.1.1                                                                                                                                                                                                  | I                         |          |       | C                                           |          |  |           |  |
| Provide acceptable damage criteria for the first stage compressor rotor blades                                                                                                                 | 18.1.4.1                                                                                                                                                                                                | I                         |          |       | C                                           |          |  |           |  |
| List the components that require repair / replacement including the expected exchange interval for reconditioning / repair                                                                     | 18.1.5.2                                                                                                                                                                                                | I                         |          |       | C                                           |          |  |           |  |
| Provide description of active instability or pulsation control system where installed                                                                                                          | 18.1.6.1                                                                                                                                                                                                | I                         |          |       | C                                           |          |  |           |  |
| Provide description of combustion auto-tuning capability where installed                                                                                                                       | 18.1.6.1                                                                                                                                                                                                | I                         |          |       | C                                           |          |  |           |  |
| Notes for use                                                                                                                                                                                  | 1. In the Stage columns the use of the letter 'I' = Information and the letter 'A' = Approval<br>2. In the Responsibility columns the use of the letter 'P' = Purchaser and the letter 'C' = Contractor |                           |          |       |                                             |          |  |           |  |
| GENERAL COMMENTS                                                                                                                                                                               |                                                                                                                                                                                                         |                           |          |       |                                             |          |  |           |  |

| Document<br>Data Sheet                                                                                                                                           |                                                                                                                                                                                                         | Project Number            |          |       | Contractor<br>Document Number               |  | Revision  |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|----------|-------|---------------------------------------------|--|-----------|--|
|                                                                                                                                                                  |                                                                                                                                                                                                         | Item Number               |          |       | Purchaser<br>Document Number                |  | Rev. Date |  |
| Sheet 5 of 11                                                                                                                                                    |                                                                                                                                                                                                         |                           |          |       |                                             |  |           |  |
| Description                                                                                                                                                      | Cross<br>Reference                                                                                                                                                                                      | Requirement / Information |          |       |                                             |  | Comments  |  |
|                                                                                                                                                                  | Clause                                                                                                                                                                                                  | Tender                    | Contract | Final | Responsibility<br>Purchaser /<br>Contractor |  |           |  |
| <b>GAS TURBINE CORE (continued)</b>                                                                                                                              | <b>18</b>                                                                                                                                                                                               |                           |          |       |                                             |  |           |  |
| Supply forging specific material properties certification (Option)                                                                                               | 18.1.8.1                                                                                                                                                                                                |                           | I        |       | C                                           |  |           |  |
| Provide justification of the overspeed margin capability (Option)                                                                                                | 18.1.10                                                                                                                                                                                                 |                           | I        |       | C                                           |  |           |  |
| Provide a lateral analysis to identify the resonant frequencies (Option)                                                                                         | 18.1.11.1                                                                                                                                                                                               |                           | I        |       | C                                           |  |           |  |
| Provide all necessary information from other equipment suppliers to support the analysis (Option)                                                                | 18.1.11.1                                                                                                                                                                                               |                           | I        |       | P                                           |  |           |  |
| Supply details of all undesirable speeds                                                                                                                         | 18.1.11.1                                                                                                                                                                                               |                           | I        |       | C                                           |  |           |  |
| Supporting foundation design details if different from standard and any specific external forces                                                                 | 18.1.11.1                                                                                                                                                                                               |                           | I        |       | P                                           |  |           |  |
| Provide a lateral analysis of the vibration characteristics of the gas turbine package for the first of a kind or if the coupling or bearing design has changed  | 18.1.11.2                                                                                                                                                                                               |                           | I        |       | C                                           |  |           |  |
| Provide an analysis of the torsional vibration characteristics of the power generation package                                                                   | 18.1.11.3                                                                                                                                                                                               |                           | I        |       | C                                           |  |           |  |
| Submit the balancing procedure                                                                                                                                   | 18.3.2                                                                                                                                                                                                  |                           | I        |       | C                                           |  |           |  |
| Balancing results shall be reported (Option)                                                                                                                     | 18.3.2                                                                                                                                                                                                  |                           | A        |       | C                                           |  |           |  |
| Provide the acceptance criteria for the balancing procedure used                                                                                                 | 18.3.4                                                                                                                                                                                                  | I                         |          |       | C                                           |  |           |  |
| Advise any alteration to the standard gas turbine thermodynamic cycle and the experience base for the cycle modification                                         | 18.5                                                                                                                                                                                                    | I                         |          |       | C                                           |  |           |  |
| Document all the external devices such as motor driven fans and heat exchangers that are a fundamental part of the gas turbine (rotor and casing) cooling system | 18.5.2                                                                                                                                                                                                  |                           | I        |       | C                                           |  |           |  |
| Document components in the gas turbine using steam as primary cooling media and operating experience                                                             | 18.5.2                                                                                                                                                                                                  | I                         |          |       | C                                           |  |           |  |
| <b>GEARBOXES AND COUPLINGS</b>                                                                                                                                   | <b>19</b>                                                                                                                                                                                               |                           |          |       |                                             |  |           |  |
| Details of vibration monitoring equipment on small auxiliary gearboxes (Option)                                                                                  | 19.3                                                                                                                                                                                                    |                           | I        |       | C                                           |  |           |  |
| Main drive coupling, alternative design to ISO 14691:2007                                                                                                        | 19.4.2                                                                                                                                                                                                  | I                         |          |       | C                                           |  |           |  |
| Gear / diaphragm coupling design variations to ISO 10441 required                                                                                                | 19.4.3                                                                                                                                                                                                  | I                         |          |       | P                                           |  |           |  |
| Quill shaft coupling design variations to ISO 14691:2007 required                                                                                                | 19.4.4                                                                                                                                                                                                  | I                         |          |       | C                                           |  |           |  |
| Guards, alternative design required to ISO 10441:2007, Annex H                                                                                                   | 19.4.7                                                                                                                                                                                                  | I                         |          |       | C                                           |  |           |  |
| Guards lubricated coupling, alternative design required to ISO 10441:2007, Annex H                                                                               | 19.4.7                                                                                                                                                                                                  | I                         |          |       | C                                           |  |           |  |
| <b>AIR INLET SYSTEM</b>                                                                                                                                          | <b>20</b>                                                                                                                                                                                               |                           |          |       |                                             |  |           |  |
| Recommended filter system design details                                                                                                                         | 20.1                                                                                                                                                                                                    | I                         | A        |       | C                                           |  |           |  |
| Generic filter efficiency test data (Option)                                                                                                                     | 20.2                                                                                                                                                                                                    |                           | I        |       | C                                           |  |           |  |
| Generic filter wet burst test data (Option)                                                                                                                      | 20.2                                                                                                                                                                                                    |                           | I        |       | C                                           |  |           |  |
| Filter elements mechanical handling / lifting plan                                                                                                               | 20.3                                                                                                                                                                                                    |                           | A        |       | C                                           |  |           |  |
| Water removal features and drain system                                                                                                                          | 20.4                                                                                                                                                                                                    | I                         |          |       | C                                           |  |           |  |
| Inlet cooler maintenance, availability, risks and operating restrictions                                                                                         | 20.5                                                                                                                                                                                                    | I                         |          |       | C                                           |  |           |  |
| General arrangement for inlet and ducting                                                                                                                        | 20.6                                                                                                                                                                                                    | I                         | A        |       | C                                           |  |           |  |
| Duct access method for cleaning / inspection                                                                                                                     | 20.6                                                                                                                                                                                                    | I                         |          |       | C                                           |  |           |  |
| Notes for use                                                                                                                                                    | 1. In the Stage columns the use of the letter 'I' = Information and the letter 'A' = Approval<br>2. In the Responsibility columns the use of the letter 'P' = Purchaser and the letter 'C' = Contractor |                           |          |       |                                             |  |           |  |
| GENERAL COMMENTS                                                                                                                                                 |                                                                                                                                                                                                         |                           |          |       |                                             |  |           |  |