

Rev. 1

June 6, 2024

| REVISION RECORD |               |                |  |  |  |  |
|-----------------|---------------|----------------|--|--|--|--|
| Revision No.    | Approval Date | Section / Page | Reason / Description of Change             |  |  |  |
|                 |               | Revised        |  |  |  |  |
| 0               | 9/14/2023     | All            | Initial Issue                              |  |  |  |
| 1               | 6/6/24        | All            | Integrated Risk appendix into design basis |  |  |  |
|                 |               |                |  |  |  |  |
|                 |               |                |  |  |  |  |
|                 |               |                |  |  |  |  |
|                 |               |                |  |  |  |  |
|                 |               |                |  |  |  |  |

## **APPENDIX 5: DESIGN BASIS AND OPERATIONAL DATA**

The following table sets forth certain design basis and operational requirements for the overall Project. Seller shall update items in Appendix 5 as noted below. Once Seller and Buyer agree to the inputs, any Seller change in the inputs that may decrease performance must be approved by Buyer.

| 1      | DESIGN CONDITIONS   | UNITS  | DATA | COMMENTS /<br>CLARIFICATIONS  |
|--------|---|--|------|---|
| 1.1    | Project Location  | -  |      | City, State (County/Parish)   |
| 1.2    | Main Access Road  | -  |      |   |
| 1.3    | Governing Building Code   | -  |      |   |
| 1.4    | Design lifetime of the plant  | years  |      | 30 years specified  |
| 1.5    | Average site elevation  | ft a.s.l.  |      |   |
| 1.6    | Ambient Temperature Recorded (Minimum/Average/Maximum)                        | °F   |      |   |
| 1.7    | Design Temperature for Operation (Minimum/Maximum)                            | °F   |      |   |
| 1.8    | Design Humidity Ratio<br>(Minimum/Maximum)                                    | grams of<br>water vapor<br>/ grams of<br>dry air |      |   |
| 2.31.9 | ASCE 7 Risk Category  | -  |      | Per IBC and ASCE 7  |
| 1.10   | Design wind speed normal operation / storm safe position                      | Mph / Mph  |      | Design per IBC and ASCE 7   |
| 1.11   | Rainfall (Annual Avg/Annual Max/1-<br>day Max/Design Basis Rainfall<br>Event) | inch   |      |   |
| 1.12   | Maximum 500-year flood elevation  | ft a.s.l.  |      |   |
| 1.13   | Designed flood elevation without equipment damage                             | ft a.s.l.  |      |   |
| 1.14   | Typical meteorological year (GHI)   | kWh/m²   |      |   |
| 1.15   | Allowable Seismic Ground<br>Accelerations, Ss and S1                          | g  |      | Ground acceleration values shall be confirmed by the Project's geotechnical study |
| 1.16   | Available Area required (approx.)   | acres  |      |   |
| 1.17   | Snow Load normal operation / storm safe position                              | Psf / psf  |      | Design per IBC and ASCE 7   |

| 1    | DESIGN CONDITIONS   | UNITS       | DATA | COMMENTS /<br>CLARIFICATIONS                                 |
|------|---|-------------|------|--|
| 1.18 | Ice thickness normal operation / storm safe position  | Inch / inch |      | Design per IBC and ASCE 7                                    |
| 1.19 | Design vegetation height in the array assumed for site design performance characteristics or minimizing fire heat release will adversely affect PV array. | inches      |      | The lesser of the two values<br>Referenced ASTM-E2908-<br>12 |
| 1.20 | Responding Fire department distance   | Miles       |      | Include address and contact number in data                   |
| 1.21 | Nearest water point or draft location used by fire department for this location.  | Miles       |      | Address in data  |
| 1.22 | PV array fire mitigation strategy:<br>non-combustible fire break via full<br>perimeter roads and internal<br>segregated by access roads.                  | Y/N         |      | List deviations in data                                      |
| 1.23 | Transformer fire mitigation: Confinement of oil and fire to transformer of origin per codes. Self-extinguishing oil impoundment.                          | Y/N         |      | List deviations in data                                      |
| 1.24 | Other physically occupiable structures, Noncombustible construction per IBC (international building code) edition adapted by state.                       | Y/N         |      | List deviations in data                                      |
| 1.25 | Adequate spatial separation to other exposures as needed to prevent secondary damage per NFPA-80a assume no fire department mitigation.                   | Y/N         |      | List deviations in data                                      |

| 2   | GENERAL PLANT DATA                                 |     |  |
|-----|--|-----|--|
| 2.1 | PV technology type                                 |     |  |
| 2.2 | Installed Capacity (total DC peak power)           | MWp |  |
| 2.3 | Nominal Power (AC) (total nominal inverter output) | MW  |  |

| 2    | GENERAL PLANT DATA                         |       |  |
|------|--|-------|--|
| 2.4  | Nominal Power at Electrical POI (AC)       | MW    |  |
| 2.5  | DC/AC ratio                                |       | May not be modified after<br>Agreement date without<br>permission of both parties  |
| 2.6  | Nighttime Auxiliary Power (Average/Peak)   | MW    |  |
| 2.7  | Annual Nighttime Auxiliary Power           | MWh   | Year 1 (starting at the<br>Substantial Completion<br>Payment Date) based on<br>TMY |
| 2.8  | Total area covered by PV arrays            | acres |  |
| 2.9  | Total area of Project                      | acres |  |
| 2.10 | Row to row spacing                         | ft    |  |
| 2.11 | Ground Coverage Ratio                      | %     |  |
| 2.12 | Shading losses due to internal row spacing | %     |  |
| 2.13 | Total number of PV panels                  | Qty   |  |
| 2.14 | Total number of strings                    | Qty   |  |
| 2.15 | Total number of racking system tables      | Qty   |  |
| 2.16 | Total number of combiner boxes             | Qty   |  |
| 2.17 | Total number of inverters                  | Qty   |  |
| 2.18 | Total number of LV/MV transformers         | Qty   |  |

| 3   | MONTHLY PERFORMANCE RATIOS | - |  |
|-----|----------------------------|---|--|
| 3.1 | January                    | % |  |
| 3.2 | February                   | % |  |
| 3.3 | March                      | % |  |
| 3.4 | April                      | % |  |
| 3.5 | May                        | % |  |
| 3.6 | June                       | % |  |

| 3    | MONTHLY PERFORMANCE RATIOS | - |  |
|------|----------------------------|---|--|
| 3.7  | July                       | % |  |
| 3.8  | August                     | % |  |
| 3.9  | September                  | % |  |
| 3.10 | October                    | % |  |
| 3.11 | November                   | % |  |
| 3.12 | December                   | % |  |
| 3.13 | PR Base                    | % |  |

| 4    | YEARLY PERFORMANCE RATIOS                                    | - |  |
|------|--|---|--|
| 4.1  | Year 1 (starting at the Substantial Completion Payment Date) | % |  |
| 4.2  | Year 2   | % |  |
| 4.3  | Year 3   | % |  |
| 4.4  | Year 4   | % |  |
| 4.5  | Year 5   | % |  |
| 4.6  | Year 6   | % |  |
| 4.7  | Year 7   | % |  |
| 4.8  | Year 8   | % |  |
| 4.9  | Year 9   | % |  |
| 4.10 | Year 10  | % |  |
| 4.11 | Year 11  | % |  |
| 4.12 | Year 12  | % |  |
| 4.13 | Year 13  | % |  |
| 4.14 | Year 14  | % |  |
| 4.15 | Year 15  | % |  |
| 4.16 | Year 16  | % |  |
| 4.17 | Year 17  | % |  |
| 4.18 | Year 18  | % |  |
| 4.19 | Year 19  | % |  |

| 4    | YEARLY PERFORMANCE RATIOS | - |  |
|------|---------------------------|---|--|
| 4.20 | Year 20                   | % |  |
| 4.21 | Year 21                   | % |  |
| 4.22 | Year 22                   | % |  |
| 4.23 | Year 23                   | % |  |
| 4.24 | Year 24                   | % |  |
| 4.25 | Year 25                   | % |  |
| 4.26 | Year 26                   | % |  |
| 4.27 | Year 27                   | % |  |
| 4.28 | Year 28                   | % |  |
| 4.29 | Year 29                   | % |  |
| 4.30 | Year 30                   | % |  |

| 5    | ANNUAL DEGRADATION FACTOR                                    | - |  |
|------|--|---|--|
| 5.1  | Year 1 (starting at the Substantial Completion Payment Date) | % |  |
| 5.2  | Year 2 (max 0.5% for years 2 -30)                            | % |  |
| 5.3  | Year 3   | % |  |
| 5.4  | Year 4   | % |  |
| 5.5  | Year 5   | % |  |
| 5.6  | Year 6   | % |  |
| 5.7  | Year 7   | % |  |
| 5.8  | Year 8   | % |  |
| 5.9  | Year 9   | % |  |
| 5.10 | Year 10  | % |  |
| 5.11 | Year 11  | % |  |
| 5.12 | Year 12  | % |  |
| 5.13 | Year 13  | % |  |
| 5.14 | Year 14  | % |  |
| 5.15 | Year 15  | % |  |
| 5.16 | Year 16  | % |  |

| 5    | ANNUAL DEGRADATION FACTOR | - |  |
|------|---------------------------|---|--|
| 5.17 | Year 17                   | % |  |
| 5.18 | Year 18                   | % |  |
| 5.19 | Year 19                   | % |  |
| 5.20 | Year 20                   | % |  |
| 5.21 | Year 21                   | % |  |
| 5.22 | Year 22                   | % |  |
| 5.23 | Year 23                   | % |  |
| 5.24 | Year 24                   | % |  |
| 5.25 | Year 25                   | % |  |
| 5.26 | Year 26                   | % |  |
| 5.27 | Year 27                   | % |  |
| 5.28 | Year 28                   | % |  |
| 5.29 | Year 29                   | % |  |
| 5.30 | Year 30                   | % |  |

| 6    | YEARLY PRODUCTION  | -      |  |
|------|--|--------|--|
| 6.1  | Year 1 (starting at the Substantial Completion Payment Date) | MWh/yr |  |
| 6.2  | Year 2   | MWh/yr |  |
| 6.3  | Year 3   | MWh/yr |  |
| 6.4  | Year 4   | MWh/yr |  |
| 6.5  | Year 5   | MWh/yr |  |
| 6.6  | Year 6   | MWh/yr |  |
| 6.7  | Year 7   | MWh/yr |  |
| 6.8  | Year 8   | MWh/yr |  |
| 6.9  | Year 9   | MWh/yr |  |
| 6.10 | Year 10  | MWh/yr |  |
| 6.11 | Year 11  | MWh/yr |  |
| 6.12 | Year 12  | MWh/yr |  |
| 6.13 | Year 13  | MWh/yr |  |

| 6    | YEARLY PRODUCTION | -      |
|------|-------------------|--------|
| 6.14 | Year 14           | MWh/yr |
| 6.15 | Year 15           | MWh/yr |
| 6.16 | Year 16           | MWh/yr |
| 6.17 | Year 17           | MWh/yr |
| 6.18 | Year 18           | MWh/yr |
| 6.19 | Year 19           | MWh/yr |
| 6.20 | Year 20           | MWh/yr |
| 6.21 | Year 21           | MWh/yr |
| 6.22 | Year 22           | MWh/yr |
| 6.23 | Year 23           | MWh/yr |
| 6.24 | Year 24           | MWh/yr |
| 6.25 | Year 25           | MWh/yr |
| 6.26 | Year 26           | MWh/yr |
| 6.27 | Year 27           | MWh/yr |
| 6.28 | Year 28           | MWh/yr |
| 6.29 | Year 29           | MWh/yr |
| 6.30 | Year 30           | MWh/yr |

\*\*\* END OF APPENDIX 5 \*\*\*