

**NUCLEON – ARKANSAS STUDY WORK ORDER**

The Contractor (Nucleon) shall provide the following Services to the Company (EXCEL):

EXCEL shall provide 5–8 target locations for new nuclear generation (GPS coordinates), based on its human-factor insights and available pre-screening. From the models listed below, EXCEL would select two scenarios that will be common to those locations.

Nucleon will identify the most promising existing nodal connection location within a 20-mile radius of each provided point and evaluating MW injection capability (System Normal N-0 and Contingency N-1), using the ratings available in the cases outlined below. Noting that power flow models will be analyzed as is, using the cases in their current form.

The power flow analysis performed under this scope is limited to high-level, screening-level evaluation using existing power system models in their current form. The analysis is intended solely to support preliminary site and grid-proximity screening for prospective SMR locations and does not constitute an interconnection study, transmission planning assessment, facility rating determination, or system impact analysis. Results are indicative only and must not be relied upon for permitting, design, or operational decisions.

By the end of the first week of February 2026, Nucleon would provide confirmation of indicative upper MW sizing ranges under both System Normal and Contingency conditions. Nucleon will deliver this on a time (\$275/hr)-and-materials basis, including specialized software costs, within a not-to-exceed budget of \$39,600.

Nucleon understands and is aware that this work will a part of the State of Arkansas’s nuclear feasibility study and as such its final product will in whole or part become a matter of public record. Nucleon agrees to comply with the Arkansas Freedom of Information Act, to the extent it may apply. A copy of the EXCEL-Arkansas contract is attached, and this Work Order shall be conducted in a manner to comply with that contract. This work order is contingent on approval from the Arkansas General Assembly Joint Committee on Energy.

[Contractor’s Organization]

[Company’s Organization]

By: \_\_\_\_\_  
Name:

By: \_\_\_\_\_  
Name:

Date:

Date:

I have authority to bind the company

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The models currently available to Nucleon, from the ERAG 2025 Series are:

- MMWG\_2026SLL\_2025Series\_Final.raw → 2026 Spring Light Load

- MMWG\_2026SUM\_2025Series\_Final.raw → 2026 Summer Peak Load
- MMWG\_2026WIN\_2025Series\_Final.raw → 2026/2027 Winter Peak Load
- MMWG\_2027SLL\_2025Series\_Final.raw → 2027 Spring Light Load
- MMWG\_2027SUM\_2025Series\_Final.raw → 2027 Summer Peak Load
- MMWG\_2027WIN\_2025Series\_Final.raw → 2027/2028 Winter Peak Load
- MMWG\_2030SML\_2025Series\_Final.raw → 2030 Spring Minimum Load
- MMWG\_2030SSH\_2025Series\_Final.raw → 2030 Summer Shoulder Load
- MMWG\_2030SUM\_2025Series\_Final.raw → 2030 Summer Peak Load
- MMWG\_2030WIN\_2025Series\_Final.raw → 2030/2031 Winter Peak Load
- MMWG\_2035SUM\_2025Series\_Final.raw → 2035 Summer Peak Load
- MMWG\_2035WIN\_2025Series\_Final.raw → 2035/2036 Winter Peak Load