



February 16, 2023  
2023041

**Kevin Powell**  
**Assistant Director of Public Works - Utilities**  
**City of Hudson, Ohio**

## Feasibility Study Proposal – Allstate Complex Reliability Improvements

Dear Kevin,

GPD Group (GPD) is pleased to present the following proposal for completing a feasibility study for Hudson Public Power (HPP) to improve the reliability of the Allstate Complex.

GPD understands from our recent conversation on January 31st that Allstate wishes to achieve the status of a Tier 4 Data Center status at their current complex. To do so, improvements are needed to their current power feed to bring in a redundant power source from a different substation. HPP provided GPD with a list of investigations and potential options to achieve this, all of which are incorporated into the study proposed below.

Please let the body of this letter serve as the Feasibility Study Scope of Work that GPD proposes to perform to aid HPP in deciding on how to proceed with continuing to serve the Allstate Complex.

### Feasibility Study Scope of Work

#### Initial Investigation

The Feasibility Study will begin with an initial investigation into the Allstate Complex's current power delivery path, metering, and historical usage. GPD will also reach out to Allstate to better understand their intentions and planned requirements to achieve a Tier 4 designation – Particularly if they are searching for 2N or 2N+1 redundancy.

#### Feasibility Options

Following the initial investigation, GPD will determine criteria for the required second source to the Allstate Complex, including, but not limited to:

- Minimum capacity required
- Power source origin
- Physical path from the substation
- Dedicated or shared feeder

Following the criteria developed above, GPD will identify if the HPP system has a substation feeder suitable to provide a redundant feed to the Allstate Complex. If one or more are suitable, GPD will develop a preliminary plan for extending the distribution circuit to the Allstate Complex. If more than one viable option is identified, GPD and input from HPP will determine the two best options. Part of the best route analysis will include potential benefits to the HPP system that this work could also introduce. The Feasibility Study will include an estimated cost of construction for two routes. Additional estimated costs for alternate routes may be requested from HPP, which GPD can provide for an additional fee.

## Alternative Options

GPD will also perform a cursory review of potential solutions to provide the redundant power feed to the Allstate Complex outside HPP, such as FirstEnergy Distribution, solar, battery, or other distributed energy resources.

## Deliverables

All the items described above shall be delivered in one (1) comprehensive report to HPP, including appropriate drawings, sketches, estimates, or exhibits, in electronic PDF format.

## Assumptions

In writing this proposal, GPD has made the following assumptions:

- The HPP GIS system is available to GPD and is up to date with any recent system changes
- The HPP GIS system contains information on distribution line conductor sizes
- HPP can provide GPD with a minimum of six (6) years of monthly historical demand and consumption for the Allstate Complex
- Historical loading on the HPP system's substation transformers and feeder breakers is available either through GIS or a request to HPP
- HPP can provide contact information to GPD for someone at Allstate who can speak to Allstate's requirements and intentions to achieve their Tier 4 status

## Fee and Schedule

### Fee

GPD proposes to perform the work described in this letter on an hourly basis to be billed monthly in accordance with the percent complete. We recommend that the city secure an estimated \$20,000.00 for this work. This estimate is based upon the above scope of work and depends on the conditions found and the resulting additional investigations. GPD will continue to communicate with HPP regarding scope and progress. Please note that based on the total analysis required to complete the study, the overall fee could fluctuate from the estimate.

### Schedule

GPD is prepared to begin work on this project within four (4) weeks of receiving a notice to proceed from HPP. The final report is anticipated to be delivered eight (8) weeks after project commencement.

Sincerely,

GPD Group



Steve Schaub  
Director – Substation Engineering

cc: Billy Santry, GPD  
Dwight Niederkofer - GPD