

REQUEST FOR PROPOSALS FOR

Cell Tower Lease Consultant

ISSUING OFFICE

Pennsylvania Turnpike Commission

Professional Services Procurement Department

On behalf of the

**Office of Chief Counsel
Property Management Department**

RFP NUMBER 6100011732

DATE OF ISSUANCE

December 12, 2023

REQUEST FOR PROPOSALS FOR

RFP Number 6100011732

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IMPORTANT NOTES:

- **The person responsible for submitting the response to the RFX in the Vendor Portal must be a registered contact within the vendor’s Company Profile, and responses can only be made by registered contacts who have been assigned a role in Vendor Portal as either “Administrator” or “Logistics”. If the person isn’t currently registered and/or does not currently have the proper role assigned, the company’s Vendor Portal “Administrator” must add the appropriate contacts and/or assign the contact the “Logistics” role. Please allow 5 business days for processing a new contact.**
- To ask questions or submit a proposal in response to this RFP you must be registered in the Commission’s Vendor Portal.
- When submitting your proposal please allow plenty of time to upload documents completing your submission before the deadline. The Commission’s Vendor portal will not allow uploads and submissions past the deadline. The file size upload limit is 25 MB, and supported file types are PDF, Microsoft Word, PowerPoint, Excel, .jpg, .jpeg, and .png. Please name your files accordingly as Technical; Cost; and DB if applicable.
- **Proposal Submission:** All proposals must be submitted via the PA Turnpike Commission Vendor Portal. In order to protect the integrity of the procurement process, this is the only way to submit a proposal for this RFP.
- **In order to submit your proposal in the Commission’s Vendor Portal for this RFP, proposers must submit a bid price of \$1.00 on the RFX line in addition to attaching the completed Cost Proposal.** (Add this statement if your RFP includes an Appendix for the Cost Submittal - Cost proposals must be submitted on the attached Appendix G – Cost Proposal.)

CALENDAR OF EVENTS

RFP Number 6100011732

The Commission reserves the right to make changes or alterations to this schedule as the Commission determines is in its best interest.

Activity	Date	Time <i>Stated in Harrisburg, PA local time</i>
Request for Proposals Issued	December 12, 2023	N/A
Deadline for Proposers to Submit Questions via the Commission's Vendor Portal. Answers will be posted in the Commission's Vendor Portal. https://www.ptcvendorportal.com/#/sp/home	January 4, 2024	12:59 PM
Due Date for Proposals - Electronic copies of the proposal must be submitted in the Commission's Vendor Portal before the due date and time shown here. This submitted proposal cannot be accessed by PA Turnpike Commission personnel until the proposal opening date and time. https://www.ptcvendorportal.com/#/sp/home	January 25, 2024	2:00 PM
Oral Clarifications/Presentations (<i>If necessary</i>)	TBD	TBD
Anticipated Notice to Proceed (<i>Estimate Only</i>)	March 1, 2024	N/A

PART I

GENERAL INFORMATION FOR PROPOSERS

I-1. Purpose. This request for proposals (RFP) provides interested Proposers with sufficient information to enable them to prepare and submit proposals for consideration by the Pennsylvania Turnpike Commission (Commission) to satisfy a need for a Cell Tower Lease Consultant.

I-2. Issuing Office. This RFP is issued for the Commission by the Professional Services Procurement Department on behalf of the Legal Department, Property Management Department.

I-3. Scope. This RFP contains instructions governing the proposals to be submitted and the material to be included therein; a description of the service to be provided; requirements which must be met to be eligible for consideration; general evaluation criteria; and other requirements to be met by each proposal.

I-4. Problem Statement.

A. General Description

The Commission is soliciting requests for proposals from firms interested in serving as the Commission's Cell Tower Lease Consultant. Interested firms must have recent cell tower lease experience, which includes but is not limited to fair market value evaluations, property assessments, carrier negotiations, site location and future expansion assessments, site management, ground space leasing, cell tower site selection and cellular site feasibility audits.

B. Requested Services

In addition to consulting services, the selected firm shall be required to provide to the Commission a report which evaluates the Commission's existing Cell Tower Leasing Program and makes recommendations to maximize market competitiveness and future leasing opportunities.

I-5. Type of Contract. The Commission intends to award one contract as a result of this RFP. It is proposed that if a contract is entered into as a result of this RFP, it will be a fee for services. The Commission may in its sole discretion undertake negotiations with Proposers whose proposals as to price and other factors show them to be qualified, responsible, responsive and capable of performing the work. A sample Contractual Agreement is provided in Appendix A and is only to be considered as the Commission's standard base agreement that is subject to change during negotiations with the selected firm(s) based on the specific needs or requirements of the project or services. The Commission does not commit to accepting contractual language changes as suggested or requested by Proposers during the procurement process.

I-6. Contractor Integrity Provisions. Contractor Integrity Provisions will apply to this contract upon award and the awarded vendor may be required attend annual ethics training provided by the Commission. Proposers can find the Integrity Provisions and other related documents on the Commissions website at www.paturnpike.com (Business Hub, Vendor Resources, Contractor Integrity Provisions).

Include full disclosure of any potential conflict with the State Adverse Interest Act, 71 P.S. § 776.3, for a State Advisor or State Consultant by the prime or any subconsultant. If there is no adverse interest, proposers shall confirm the following statement on Appendix B – Proposal Cover Sheet: "I have reviewed

the State Adverse Interest Act and determined that there is no adverse interest for anyone on this Agreement team."

I-7. Rejection of Proposals. The Commission reserves the right to reject any and all proposals received as a result of this request, or to negotiate separately with competing Proposers.

I-8. Subcontracting. Any use of subcontractors by a Proposer must be identified in the proposal. During the contract period use of any subcontractors by the selected Proposer, which were not previously identified in the proposal, must be approved in advance in writing by the Commission.

If access to Commission systems or data is required, all sub-contractors and the physical location of each sub-contractor, must be identified with the submitted proposal.

If a Joint Venture responds to this RFP, the Commission will not accept separate proposals from joint venture constituents. A firm will not be permitted to submit a proposal on more than one (1) joint venture for the same RFP. Also, a firm that responds to this RFP as a prime may not be included as a designated subconsultant to another firm that responds to the same RFP. Multiple responses under any of the foregoing situations will cause the rejection of all responses of the firm or firms involved. This does not preclude a firm from being set forth as a designated subconsultant to more than one prime consultant responding to the RFP.

I-9. Incurring Costs. The Commission is not liable for any costs the Proposer incurs in preparation and submission of its proposal, in participating in the RFP process or in anticipation of award of contract.

I-10. Procurement Schedule of Events. The current Schedule for Key Procurement Dates for this procurement process leading to an award of the Contract is provided in the Calendar of Events, page 2 of this RFP. The Commission reserves the right to make changes or alterations to this schedule as the Commission determines is in its best interest. All changes to these dates and/ or times up to and including the due date for Proposals will be issued as an addendum to this RFP and will become part of this RFP and will be posted to the Commission's Vendor Portal as an attachment to the RFP.

Unless otherwise notified in writing via the Commission's Vendor Portal by the Commission, the dates indicated in the calendar of events for submission of items or for other required actions on the part of a Proposer shall constitute absolute deadlines for those activities and failure to fully comply by the time and date stated shall cause a Proposer to be disqualified. All times stated are in Harrisburg, PA local time and are subject to change.

I-11. Questions and Answers. There will be no pre-proposal conference for this RFP. No negotiations, decisions or actions shall be initiated or executed by a Proposer as a result of any oral discussions with any Commission member, employee, consultant/contractor. Questions may be submitted to clarify any points in the RFP which may not have been clearly understood. Questions shall be submitted via the Commission's Vendor Portal to be received no later than the date and time provided on the Calendar of Events. All questions and written answers will be visible to all vendors within the Commission's Vendor Portal and become part of this RFP. It is the responsibility of the Proposer to monitor the RFX section of the RFX in the Commission's Vendor Portal for any questions and answers and to ensure that the submitted proposal complies with any information or clarification provided therein.

I-12. Addenda to the RFP. If it becomes necessary to revise any part of this RFP before the proposal response date, addenda will be posted to the Commission’s Vendor Portal as an attachment to the RFP. It is the responsibility of the Proposer to periodically check the Commission’s Vendor Portal for any new information or addenda to the RFP.

The Commission may revise a published advertisement. If the Commission revises published advertisement less than ten (10) calendar days before the RFP due date, the due date will be extended to maintain the minimum ten-day advertisement duration if the revision alters the project scope or selection criteria. Firms are responsible to monitor advertisements/addenda to ensure the submitted proposal complies with any changes in the published advertisement.

I-13. Response. All proposals must be submitted electronically via the Commission’s Vendor Portal (<https://www.ptcvendorportal.com>). Failure to submit proposal by the due date/time and to include all essential information will be deemed sufficient reason for rejection of proposal. Assistance can be obtained by utilizing the agent chat; help document; and/or videos within the Commission’s Vendor Portal. Proposers should allow ample time for the bid submission process. Submitting documents too close to the bid due date and time may not allow sufficient time for the bid to upload in Vendor Portal prior to the deadline.

Unless the Proposers are otherwise notified by the Commission, the time for submission of proposals shall remain the same.

I-14. Proposals. To be considered, Proposers should submit a complete response to this RFP, using the format provided in PART II. Each submitted proposal should include a **separate** file for the Technical Submittal, the Diverse Business (DB) participation submittal, and the Cost Submittal. Proposer should ensure that there is no costing information in the technical submittal. The Proposer shall present the proposal to the Professional Services Procurement Department only via the Commission’s Vendor Portal. No other distribution of proposals will be made by the Proposer and should not be emailed to the Professional Services Procurement Department. Each proposal page should be numbered for ease of reference.

An official authorized to bind the Proposer to its Proposal must sign the proposal. If the official signs the Proposal Cover Sheet (Appendix B to this RFP) and the Proposal Cover Sheet is attached to the proposal, the requirement will be met. For this RFP, the proposal must remain valid for at least **120** calendar days. Moreover, the contents of the proposal of the selected Proposer will become contractual obligations if a contract is entered into.

Each and every Proposer submitting a proposal specifically waives any right to withdraw or modify it, except as hereinafter provided. Proposals may be withdrawn by written notice to the RFP-Q@paturnpike.com mailbox before the exact hour and date specified for proposal receipt.

However, if the Proposer chooses to attempt to provide such written notice by email transmission, the Commission shall not be responsible or liable for errors in email transmission. A proposal may be modified only by the submitting of a new proposal in the Commission’s Vendor Portal before the proposal submission deadline.

I-15. Economy of Preparation. Proposals should be prepared simply and economically, providing a straightforward, concise description of the Proposer’s ability to meet the requirements of the RFP.

I-16. Discussions for Clarification. Proposers who submit proposals may be required to make an oral or written clarification of their proposals to the Issuing Office through the Contract Administration Department to ensure thorough mutual understanding and Proposer responsiveness to the solicitation requirements. The Issuing Office through the Contract Administration Department will initiate requests for clarification.

I-17. Best and Final Offers. The Issuing Office reserves the right to conduct discussions with Proposers for the purpose of obtaining “best and final offers.” To obtain best and final offers from Proposers, the Issuing Office may do one or more of the following: a) enter into pre-selection negotiations; b) schedule oral presentations; and c) request revised proposals. The Issuing Office will limit any discussions to responsible Proposers whose proposals the Issuing Office has determined to be reasonably susceptible of being selected for award.

I-18. Prime Proposer Responsibilities. The selected Proposer will be required to assume responsibility for all services offered in its proposal whether or not it produces them. Further, the Commission will consider the selected Proposer to be the sole point of contact with regard to contractual matters.

I-19. Proposal Contents. Proposals will be held in confidence and will not be revealed or discussed with competitors, unless disclosure is required to be made (i) under the provisions of any Commonwealth or United States statute or regulation; or (ii) by rule or order of any court of competent jurisdiction. All material submitted with the proposal becomes the property of the Pennsylvania Turnpike Commission and may be returned only at the Commission’s option. Proposals submitted to the Commission may be reviewed and evaluated by any person other than competing Proposers at the discretion of the Commission. The Commission has the right to use any or all ideas presented in any proposal. Selection or rejection of the proposal does not affect this right.

In accordance with the Pennsylvania Right-to-Know Law (RTKL), 65 P.S. § 67.707 (Production of Certain Records), Proposers shall identify any and all portions of their Proposal that contains confidential proprietary information or is protected by a trade secret. Proposals shall include a written statement signed by a representative of the company/firm identifying the specific portion(s) of the Proposal that contains the trade secret or confidential proprietary information.

Proposers should note that “trade secrets” and “confidential proprietary information” are exempt from access under Section 708(b)(11) of the RTKL. Section 102 defines both “trade secrets” and “confidential proprietary information” as follows:

Confidential proprietary information: Commercial or financial information received by an agency: (1) which is privileged or confidential; **and** (2) the disclosure of which would cause substantial harm to the competitive position of the person that submitted the information.

Trade secret: Information, including a formula, drawing, pattern, compilation, including a customer list, program, device, method, technique or process that: (1) derives independent economic value, actual or potential, from not being generally known to and not being readily ascertainable by proper means by other persons who can obtain economic value from its disclosure or use; **and** (2) is the subject of efforts that are reasonable under the circumstances to maintain its secrecy. The term includes data processing software by an agency under a licensing agreement prohibiting disclosure.

65 P.S. §67.102 (emphasis added).

The Office of Open Records has determined that a third party must establish a trade secret based upon factors established by the appellate courts, which include the following:

- the extent to which the information is known outside of his business;
- the extent to which the information is known by employees and others in the business;
- the extent of measures taken to guard the secrecy of the information;
- the value of the information to his business and to competitors;
- the amount of effort or money expended in developing the information; and
- the ease of difficulty with which the information could be properly acquired or duplicated by others.

See Crum v. Bridgestone/Firestone North Amer. Tire., 907 A.2d 578, 585 (Pa. Super. 2006).

The Office of Open Records also notes that with regard to “confidential proprietary information the standard is equally high and may only be established when the party asserting protection shows that the information at issue is either ‘commercial’ or ‘financial’ and is privileged or confidential, and the disclosure *would* cause substantial competitive harm.” (emphasis in original).

For more information regarding the RTKL, visit the Office of Open Records’ website at www.openrecords.state.pa.us.

I-20. Debriefing Conferences. Proposers whose proposals are not selected will be notified of the name of the selected Proposer and given the opportunity to be debriefed, at the Proposer’s request. The Issuing Office will schedule the time and location of the debriefing. The Proposer will not be compared with other Proposers.

I-21. News Releases. Proposers shall not issue news releases, internet postings, advertisements or any other public communications pertaining to this RFP without prior written approval of the Issuing Office, and then only in coordination with the Issuing Office.

I-22. Commission Participation. Unless specifically noted in this section, Proposers must provide all services to complete the identified work.

I-23. Cost Submittal. The cost submittal shall be a separate document within the electronically submitted proposal and kept separate from the technical submittal.

I-24. Term of Contract. The term of the contract will commence on the Effective Date (as defined below) and will end five (5) years from that date. The Commission shall fix the Effective Date after the contract has been fully executed by the selected Proposer and by the Commission and all approvals required by Commission contracting procedures have been obtained.

The selected Proposer shall not start the performance of any work prior to the Effective Date of the contract and the Commission shall not be liable to pay the selected Proposer for any service or work performed or expenses incurred before the Effective Date of the contract.

I-25. Proposer’s Representations and Authorizations. Each Proposer by submitting its proposal understands, represents, and acknowledges that:

- a. All information provided by, and representations made by, the Proposer in the proposal are material and important and will be relied upon by the Issuing Office in awarding the contract(s). Any misstatement, omission or misrepresentation shall be treated as fraudulent concealment from the Issuing Office of the true facts relating to the submission of this proposal. A misrepresentation shall be punishable under 18 Pa. C.S. 4904.
- b. The price(s) and amount of this proposal have been arrived at independently and without consultation, communication or agreement with any other Proposer or potential Proposer.
- c. Neither the price(s) nor the amount of the proposal, and neither the approximate price(s) nor the approximate amount of this proposal, have been disclosed to any other firm or person who is a Proposer or potential Proposer, and they will not be disclosed on or before the proposal submission deadline specified in the response section of this RFP.
- d. No attempt has been made or will be made to induce any firm or person to refrain from submitting a proposal on this contract, or to submit a proposal higher than this proposal, or to submit any intentionally high or noncompetitive proposal or other form of complementary proposal.
- e. The proposal is made in good faith and not pursuant to any agreement or discussion with, or inducement from, any firm or person to submit a complementary or other noncompetitive proposal.
- f. To the best knowledge of the person signing the proposal for the Proposer, the Proposer, its affiliates, subsidiaries, officers, directors, and employees are not currently under investigation by any governmental agency and have not in the last four (4) years been convicted or found liable for any act prohibited by State or Federal law in any jurisdiction, involving conspiracy or collusion with respect to bidding or proposing on any public contract, except as disclosed by the Proposer in its proposal.
- g. To the best of the knowledge of the person signing the proposal for the Proposer and except as otherwise disclosed by the Proposer in its proposal, the Proposer has no outstanding, delinquent obligations to the Commonwealth including, but not limited to, any state tax liability not being contested on appeal or other obligation of the Proposer that is owed to the Commonwealth.
- h. The Proposer is not currently under suspension or debarment by the Commonwealth, or any other state, or the federal government, and if the Proposer cannot certify, then it shall submit along with the proposal a written explanation of why such certification cannot be made.
- i. The Proposer has not, under separate contract with the Issuing Office, made any recommendations to the Issuing Office concerning the need for the services described in the proposal or the specifications for the services described in the proposal.
- j. Each Proposer, by submitting its proposal, authorizes all Commonwealth agencies to release to the Commission information related to liabilities to the Commonwealth

including, but not limited to, taxes, unemployment compensation, and workers' compensation liabilities.

I-26. Indemnification. The Proposer shall be responsible for, and shall indemnify, defend, and hold harmless the Commission and its Commissioners, officers, employees, and agents (the "Indemnified Parties") from all claims, liabilities, damages, and costs including reasonable attorneys' fees, for bodily injury (including death) and damage to real or tangible personal property arising from or related to the negligence or other tortious acts, errors, and omissions of Proposer, its employees, or its subcontractors while engaged in performing the work of this Agreement or while present on the Commission's premises, and for breach of this Agreement regarding the use or disclosure of proprietary and confidential information where it is determined that Proposer is responsible for any use of such information not permitted by this Agreement. This indemnification obligation shall not be reduced in any way by any limitation on the amount or type of damages, compensation, or benefits payable by Proposer or its subcontractors under any employee benefit act including but not limited to Workers' Compensation Acts, Disability Benefits Acts, or other Employee Benefit Act.

I-27. Data/Information Security Breach Notification. "Breach" shall mean any successful unauthorized acquisition, access, use, or disclosure of Commission data that compromises the security or privacy of such data.

"Commission Data" means Commission provided information and Commission related information acquired as a result of the services provided to Commission under this Agreement.

Proposer shall report to the Commission any Breach affecting Commission Data. The notice to be provided to the Commission by Proposer shall be provided without unreasonable delay and no later than within 72 hours of Proposer's discovery of any Breach. A Breach shall be deemed to be discovered on the first day on which the Proposer knows or reasonably should have known of the Breach. The notice to be provided to the Commission by Proposer shall be made in writing to the Commission's Information Security Officer and shall include the following content: (1) the nature of the Breach; (2) the specific Commission Data affected by the Breach; (3) the steps the Proposer is taking to remediate the Breach; and (4) steps the Proposer is taking to mitigate future Breaches. Following notification of the Breach, Proposer shall cooperate with the Commission's investigation of the Breach and provide any other information regarding the Breach or the Commission Data affected which the Commission may reasonably request. Should notice to individuals whose information was part of Commission Data be required under any applicable data privacy law, including, but not limited to, individual state data breach notice laws or federal laws such as HIPAA and Gramm Leach Bliley Act, Proposer shall provide the Commission with copies of any template notification letters and draft regulatory correspondence for Commission's prior approval. Proposer shall provide any notifications required under the applicable data privacy laws on behalf of the Commission at the request of Commission. The Commission reserves the right to handle any notifications required and shall notify Proposer if the Commission will be handling the required notifications. Upon request, Proposer shall provide the Commission with its cyber-security policies and procedures. Proposer agrees to reimburse the Commission for any and all reasonable costs associated with the Commission's response to Proposer's Breach, including any fees associated with the Commission's investigation of Proposer's Breach, notification costs, and any reasonable offer of credit or identity monitoring product.

I-28. Security Requirements. Proposer will comply with the Security Requirements are described in Appendix C – Security Requirements. Note, the Security Requirements are defined as an IT Standard and

will be updated over time as necessary. This evolving document may be accessed at [Public IT Standards - IT Security Requirements \(service-now.com\)](#) and searching for “IT Security Requirements.” Each Work Order issued under the contract resulting from this RFP will reference the latest version of the IT Security Requirements.

I-29. Insurance. Proposer will comply with the Insurance requirements as described in Appendix D - Insurance Specification.

I-30. Diverse Business (DB) Requirements. Proposer will comply with the DB Requirements as described in Appendix E – Diverse Business (DB) Requirements.

PART II

INFORMATION REQUIRED FROM PROPOSERS

Proposals must be submitted in the format, including heading descriptions, outlined below. To be considered, the proposal must respond to all requirements in this part of the RFP. Any other information thought to be relevant, but not applicable to the enumerated categories, should be provided as an appendix to the proposal. All cost data relating to this proposal and all Diverse Business cost data should be kept separate from and not included in the Technical Submittal. Each proposal shall consist of five separate submittals and named accordingly as:

1. ***Proposal Cover Sheet*** (see Appendix B), in response to RFP **Part II-1**; and
2. ***Technical Submittal***, which shall be a response to RFP **Part II-2, Sections A through F**;
3. ***Diverse Business Participation Submittal***, in response to RFP **Part II-3**; and
4. ***Intellectual Property (IP) Disclosure***, (See Appendix F) in response to RFP **Part II-4**; and
5. ***Cost Submittal***, in response to RFP **Part II-5**

The Commission reserves the right to request additional information which, in the Commission's opinion, is necessary to assure that the Proposer's competence, number of qualified employees, business organization, and financial resources are adequate to perform according to the RFP.

The Commission may make such investigations as deemed necessary to determine the ability of the Proposer to perform the work, and the Proposer shall furnish to the Issuing Office all such information and data for this purpose as requested by the Commission. The Commission reserves the right to reject any proposal if the evidence submitted by, or investigation of, such Proposer fails to satisfy the Commission that such Proposer is properly qualified to carry out the obligations of the agreement and to complete the work specified.

II-1 Proposal Cover Sheet (See Appendix B). (Titled as "Cover Sheet-Your Firm name-RFP#)

Show the name of your firm, Federal I.D. number, address, name of contact person, contact person's email and telephone number date and the subject: **Cell Tower Lease Consultant, RFP 6100011732**. Appendix B must be signed by an individual who is authorized to negotiate terms, render binding decisions and commit your firm's resources. In addition, it is required that all information requested in Appendix B be provided including information pertaining to location of office performing the work, contact information, listing of all Pennsylvania offices and total number of Pennsylvania employees (residents of PA), and location of company headquarters and the required statement on the State Adverse Interest Act

II-2 Technical Submittal. (Titled as "Technical Proposal-Your Firm name-RFP#)

A. Table of Contents

Include a clear identification of the material by section and by page number.

B. Executive Summary

Summarize your understanding of the work to be done and make a positive commitment to perform the work necessary. This section should summarize the key points of your submittal.

C. Firm Overview

Provide a brief history and description of your firm's business organization and its Cell Tower Lease Consultant service expertise and experience as it relates to the requirements discussed in Part IV of this RFP. Include the location of offices and the number and types of Cell Tower consultants or other relevant professional staff in each office. Discuss your firm's presence in and commitment to the Commonwealth of Pennsylvania. Include a discussion of the specific expertise and services that distinguish your firm.

Firms should also include 3 years of financial information about the company that shows its ability to undertake a project of this size.

If you propose to subcontract any portion of the work described in your response, the subcontracted firm or firms must be identified in this section. The role of the firm or firms should be explained along with a description of the specific expertise and services that the firm or firms contribute to the overall value of your proposal.

If access to Commission systems or data is required, all sub-contractors and the physical location of each sub-contractor, must be identified with the submitted proposal. Sub-contractors and the physical location of each sub-contractor for work on this contract must be identified prior to the sub-contractor commencing work or obtaining access to Commission Systems or data.

D. Personnel

Provide the names, proposed roles, background and experience, current professional licenses, office location and availability of the consulting personnel that would perform the fair market value valuations, property assessments, carrier negotiations, site location and future expansion assessments, site management, ground space leasing, cell tower selection and cellular site feasibility audits expertise and experience as it relates to Part IV of this RFP. Specifically identify the primary person(s) who will be responsible for managing the relationship with the Commission during this endeavor. Proposer must submit a current resume for all proposed staff listing relevant experience, qualifications, and applicable professional affiliations.

E. Relevant Experience and Expertise

Provide a narrative statement regarding your recent cell tower lease experience which includes but is not limited to fair market value evaluations, property assessments, carrier negotiations, site location and future expansion assessments, site management, ground space leasing, cell tower site selection and cellular site feasibility audits expertise and experience as it relates to Part IV of this RFP. Additionally, include a statement regarding your understanding of the requirements as outlined in this RFP and your ability to provide fair market evaluations, property assessments, carrier negotiations, site location and future expansion assessments, site management, ground space leasing, cell tower site selection and cellular site feasibility audits in accordance with the same.

Describe your firm's experience in providing similar fair market value evaluations, property assessments, carrier negotiations, site location and future expansion assessments, site management, ground space leasing, cell tower site selection and cellular site feasibility audits expertise and experience services to other clients, especially other governmental entities and/or similar public/private sector transportation organizations. Describe the business practices that enable you to complete these tasks in an efficient, timely and, at times, expeditious manner.

Provide a list of three references of clients for which your firm has performed similar work, as described in this RFP, within the past three years. Studies or projects referred to should be identified and the name of the customer shown, including the name, address, and telephone number of the responsible official of the customer, company, or agency who may be contacted.

Include a statement regarding any other specialized services your firm may offer.

F. Approach

Provide a description of the proposed approach/methodology that you will follow, along with a project plan and realistic timeline that identifies the phases and tasks required to complete the services defined in Part IV. Include in this section the deliverables and reports that will be provided, the project controls that will be used, and the tasks that will be performed.

Provide a description of all of the deliverables that you will provide as an output of the project plan.

Provide relevant samples of deliverables and project plans from similar services that your firm was primarily responsible for producing.

II-3 Diverse Business (DB) Requirements (Appendix E). (Titled as "DB Proposal-Your Firm-RFP#)

The Commission's Diverse Business (DB) Requirements for this procurement and a resulting contract are identified in Appendix E. There is a 0% minimum participation level (MPL) for DBs established for this contract. However, the utilization of DBs is encouraged and will be considered as a criterion in the evaluation of proposals and may be considered as a factor in the Commission's selection of a firm for this contract.

Provide information that identifies DB firms (shall include the business name and business address of each DB and supporting documentation that includes proof of certification by one of the five Third-party Certifying Organizations as outlined in Appendix E), the roles you anticipate for potential assignments, and the amount of proposed DB participation in terms of dollars committed or percentage of total contract amount.

The proposer must include in its DB participation submittal that it meets the requirements set forth in the Commission's DB Requirements - Appendix E. In particular, the proposer shall address the section of the DB Requirements labeled, "Actions Required by Proposer during the procurement/consultant selection phase".

At a minimum, if the Proposer cannot commit to DB inclusion, then the Proposer is required to either provide a statement of intent that it will self-perform 100% of the work for the agreement or demonstrate Good Faith Efforts to solicit subconsultants that are DBs. Good Faith Efforts requirements are described further in Appendix E.

II-4 Intellectual Property (IP) Disclosure, (See Appendix F) (Titled as “IP Disclosure-Your Firm name-RFP#)

The information requested in this section shall constitute your IP Disclosure. **THE IP DISCLOSURE SHALL BE A SEPARATE DOCUMENT WITHIN THE ELECTRONICALLY SUBMITTED PROPOSAL AND KEPT SEPARATE FROM THE TECHNICAL SUBMITTAL.**

II-5 Cost Submittal. (Titled as “Cost Proposal-Your Firm name-RFP#)

The information requested in this section shall constitute your cost submittal. **THE COST SUBMITTAL SHALL BE A SEPARATE DOCUMENT WITHIN THE ELECTRONICALLY SUBMITTED PROPOSAL AND KEPT SEPARATE FROM THE TECHNICAL SUBMITTAL.**

Proposers should **not** include any assumptions in their cost submittals. If the proposer includes assumptions in its cost submittal, the Issuing Office may reject the proposal. Proposers should direct in writing to the Issuing Office pursuant to Part I-11, Questions and Answers of this RFP any questions about whether a cost or other component is included or applies. All Proposers will then have the benefit of the Issuing Office’s written answer so that all proposals are submitted on the same basis.

The cost submittal shall include the following:

- The cost to complete and provide the report, as requested in Part IV.5., to the Commission within six (6) months of receiving the authorization to proceed.
- Fee structure for consulting services to provide support for additional requirements for the term of the contract.

Any costs not provided in the cost proposal will be assumed as no charge to the Commission.

The Commission will reimburse the selected Proposer for work satisfactorily performed after execution of a written contract and the start of the contract term, in accordance with contract requirements, and only after the Commission has issued a notice to proceed.

PART III

CRITERIA FOR SELECTION

III-1. Mandatory Responsiveness Requirements.

III-2. Technical Nonconforming Proposals. The two (2) Mandatory Responsiveness Requirements set forth in Section III-1 above (a & b) are the only RFP requirements that the Commission will consider to be non-waivable. The Issuing Office reserves the right, in its sole discretion, to (1) waive any other technical or immaterial nonconformities in the proposal, (2) allow the Proposer to cure the nonconformity, or (3) consider the nonconformity in the evaluation of the proposal.

III-3. Proposal Evaluation. Proposals will be reviewed, evaluated, and rated by a Technical Evaluation Team (TET) of qualified personnel based on the evaluation criteria listed below. The TET will present the evaluations to the Professional Services Procurement Committee (PSPC). The PSPC will review the TET's evaluation and provide the Commission with the firm(s) determined to be highly recommended for this assignment.

The Commission will select the most highly qualified firm for the assignment or the firm whose proposal is determined to be most advantageous to the Commission by considering the TET's evaluation and the PSPC's determination as to each firm's rating. In making the PSPC's determination and the Commission's decision, additional selection factors may be considered taking into account the estimated value, scope, complexity and professional nature of the services to be rendered and any other relevant circumstances. Additional selection factors may include, when applicable, the following: geographic location and proximity of the firm, firm's Pennsylvania presence or utilization of Pennsylvania employees for the assignment; equitable distribution of work; diversity inclusion; and any other relevant factors as determined as appropriate by the Commission.

Award will only be made to a Proposer determined to be responsive and responsible in accordance with Commonwealth Management Directive 215.9, Contractor Responsibility Program.

III-4. Evaluation Criteria. The following criteria will be used, in order of relative importance from the highest to the lowest, in evaluating each proposal [and supporting interviews and demonstrations (if necessary and where applicable to Proposers whose proposals the Issuing Office has determined to be reasonably susceptible of being selected for award)]:

1. Proposer and Personnel Qualifications and Experience.
 - a. Proposer's relevant experience and expertise in conducting fair market value evaluations, property assessments, carrier negotiations, site location and future expansion assessments, site management, ground space leasing, cell tower site selection and cellular site feasibility audits expertise and experience as it relates to the requirements discussed in Part IV of this RFP.
 - b. Qualifications, experience and competency of professional personnel who will be assigned to the contract by the Proposer including tenure with firm, length of time in the industry and type of experience.
 - c. Financial ability of the Proposer to undertake a project of this size.
 - d. Response of references if the Commission elects to solicit them.

2. Approach.
 - a. Understanding of the Commission's needs and scope of work.
 - b. Soundness of proposed approach, methodology, and deliverables for conducting fair market value evaluations, property assessments, carrier negotiations, site location and future expansion assessments, site management, ground space leasing, cell tower site selection and cellular site feasibility audits expertise and experience as it relates to the requirements discussed in Part IV of this RFP.
 - c. Responsiveness to the Commission's desire for expeditious timeline for completion.
 - d. Quality, completeness and applicability of sample deliverables provided.
 - e. Responsiveness, organization, and clarity of Proposal.

3. Commitment to Diversity and Inclusion.

This refers to the inclusion of and approach to utilizing DB firms as described in Part II-3. Participation may be measured in terms of total dollars committed or percentage of total contract amount to certified DB firms. This criterion will be evaluated based on the amount of DB participation that the proposer can commit to and the Proposer's responsiveness to meeting the requirements described in Part II-3. Please note, to be considered a DB by the Commission, the firm shall be certified by one of the five third-party certifying organizations as identified in Appendix E.

4. Cost.

While this area may be weighted heavily, it will not normally be the deciding factor in the selection process. The Commission reserves the right to select a proposal based upon all the factors listed above and will not necessarily choose the firm offering the best price. The Commission will select the firm with the proposal that best meets its needs, at the sole discretion of the Commission.

PART IV

WORK STATEMENT

IV-1. Objectives.

- a. **General.** The Commission is soliciting requests for proposals from firms interested in serving as the Commission's Cell Tower Lease Consultant. Information about the Commission's existing cell towers is described in Appendix G – Cell Tower Information.
- b. **Specific.** In addition to consulting services, the selected firm shall be required to provide to the Commission a report which evaluates the Commission's existing Cell Tower Leasing Program and makes recommendations to maximize market competitiveness and future leasing opportunities.

IV-2. Nature and Scope of the Project. This Project is system wide and will encompass all aspects of our Roadway, and Communications System as well as all Surplus Parcels.

IV-3. Requirements. All work performed by the proposer shall be done by personnel experienced in performing cell tower lease reviews. Interested firms and proposed staff must have recent cell tower lease experience, which includes but is not limited to fair market value evaluations, property assessments, carrier negotiations, site location, future expansion assessments, site management, ground space leasing, cell tower site selection and cellular site feasibility audits, and firms shall demonstrate the financial ability to undertake a project of this size.

IV-4. Tasks.

1. **Evaluating Communications Infrastructure.** Evaluate the existing Commission owned structures and note where there is marketable space remaining on those structures.
2. **Assessing Market Competitiveness.** Review and assess the existing leases in the various markets and determine if the value received for the lease is competitive in the respective market. The Commission understands that market prices for tower space may vary between urban and rural locations.
3. **Exploring Future Leasing Opportunities.** The Commission owns other leasable land near its Limited Access Highway System; therefore, the firm must evaluate those sites for leasing potential. Additionally, the firm should advise if there are specific "Marketable Areas" along the Commission's Limited Access Highway System for which a cell carrier might have an interest.
4. **Maximizing or Leveraging the Cell Tower Program.** Assess the profitability of the cell tower program and make recommendations to maximize or leverage profitability. This should include but not be limited to a cost analysis showing the following:
 - a. Monetary benefit to the Commission to maximize leasing opportunities.
 - b. Monetary loss to the Commission because of its existing leases.

- c. Profit maximization from additional cell carrier co-locations and any additional income generated from the sites.
- d. Economic impact to the Commission to fulfill space requirements for the Turnpike Commission, OPRS/Statewide Radio Network, 911, or any countywide or statewide radio needs.

IV-5. Reports and Project Control. Evaluate the existing cell tower program and prepare a written report that sets forth the firm's findings and recommendations for improving the cell tower program, maximizing profitability, assessing and expanding market competitiveness, exploring future leasing opportunities and identifying future site locations.

a. Task Plan. A work plan for each task that identifies the work elements of each task, the resources assigned to the task, and the time allotted to each element and the deliverable items to be produced.

b. Status Report. A periodic yearly progress report covering activities, problems, and recommendations; the report should be keyed to the work plan developed by the Proposer in its proposal, as amended or approved by the Commission.

c. Problem Identification Report. An "as required" report, identifying problem areas. The report should describe the problem and its impact on the overall project and on each affected task. It should list possible courses of action with advantages and disadvantages of each and include Proposer recommendations with supporting rationale.

d. Final Report. In all cases, a requirement should be included for the submission of draft copies of the final report to permit the Commission to satisfy itself as to the report's completeness and factual accuracy. A format should be provided for the final report. The format should specify the content of the final report in detail comparable to the following:

- (1) Abstract or summarize the result of the study or service in terminology that will be meaningful to management and others generally familiar with the subject areas.
- (2) Describe data collection and analytical and other techniques used during the study.
- (3) Summarize findings, conclusions, and recommendations developed in each task.
- (4) Include all supporting documentation; e.g., flow charts, forms, questionnaires, etc.
- (5) Recommend a time-phased work plan for implementing the recommendations.

AGREEMENT

This AGREEMENT is made this _____ day of _____, 2024, between the **Pennsylvania Turnpike Commission (“COMMISSION”)**, an instrumentality of the Commonwealth of Pennsylvania, with principal offices at 700 South Eisenhower, Blvd., Middletown, Pennsylvania 17057 (mailing address: P. O. Box 67676, Harrisburg, PA 17106-7676);

AND

(name of contractor) (“CONTRACTOR”), a **(state)** corporation, with its principal office at **(address)**.

WITNESSETH:

WHEREAS, the COMMISSION desires to satisfy a need for the **(name of solicitation)**;

WHEREAS, by Act No. 211 of the General Assembly of the Commonwealth of Pennsylvania, approved May 21, 1937, and its amendments, the COMMISSION is authorized and empowered to enter into an Agreement with the CONTRACTOR;

WHEREAS, the COMMISSION desires to retain the services of CONTRACTOR upon the following terms; and

NOW, THEREFORE, in consideration of these mutual covenants, and intending to be legally bound, the parties agree as follows:

Contractor’s Scope of Work

The CONTRACTOR agrees to comply with and to provide the required services and work in accordance with the following terms, conditions, and provisions, as well as the Exhibits listed below, which are attached hereto and made a part hereof.

- Exhibit A – Contractors Proposal
- Exhibit B - Insurance Specifications
- Exhibit C – Diverse Business Requirements
- Exhibit D – Security Requirements
- Exhibit E - Contractor Integrity Provisions

CONTRACTOR will perform the work described in **(solicitation identification, i.e. RFP number)** dated **(date of solicitation)**, titled **(Title of solicitation)** and the CONTRACTOR’S proposal dated **(date of contractor’s proposal)**. These documents are made a part of this Agreement by reference.

Commission’s Responsibilities

(As defined in Section I of the RFP, “Commission Participation”)

The COMMISSION shall furnish the CONTRACTOR access to key personnel, relevant documents, and adequate workspace for completing the work.

Compensation

For the work, services, and material as defined in this Agreement, the **CONTRACTOR** shall be paid **(insert Commission approved Compensation)**.

The **CONTRACTOR** agrees that the **COMMISSION** may set off the amount of any state tax liability or other obligation of the **CONTRACTOR** or its subsidiaries to the Commonwealth against any payments due the **CONTRACTOR** under any contract with the **COMMISSION**.

Duration of Agreement [and Renewal]

The term of this Agreement shall be for a period of **(agreement term)** and shall commence on the Effective Date as defined below.

The Effective Date shall be fixed by the **COMMISSION** after the Agreement has been fully executed by the **CONTRACTOR** and by the **COMMISSION**, and after all approvals required by the **COMMISSION** contracting procedures have been obtained.

The term may be extended for **[number]** additional years by a writing signed by both parties.

This Agreement will not terminate until the **COMMISSION** accepts all work as complete and tender's final payment to the **CONTRACTOR**.

OR

The time of completion may be extended if the extension is approved by the **COMMISSION** in the form of a letter signed by the **Chief Engineer or appropriate person the Agreement is for**. This letter will become part of this Agreement. This Agreement will not terminate until the **COMMISSION** accepts all work as complete and tender's final payment to the **CONTRACTOR**.

Termination

The **COMMISSION** may terminate this Agreement at any time upon thirty- (30) calendar days written notice. If this notice is given, the **CONTRACTOR** shall be paid only for the services already rendered upon the date of the notice and for the services rendered to the date of termination, subject to all provisions of this Agreement. The notice will be effective on the date of receipt. The right to cancel may be exercised as to the entire project, or as to any particular phase or phases, part or parts, and upon one or upon several occasions, but any termination may not be revoked except upon written consent of the parties through a supplemental Agreement to this Agreement.

Insurance

The **CONTRACTOR**, prior to execution of this Agreement, shall furnish to the **COMMISSION** the certificates of insurances as required in the attached **Exhibit "X" – Insurance Requirements**.

Diverse Business (DB) Requirements

The **CONTRACTOR** shall exhibit a commitment to diversity by maintaining the diversity of the staff that will be

substantially involved in the work performed under this Agreement. The **CONTRACTOR** agrees to assign aspects of such work to qualified minority and women staff. The **CONTRACTOR** shall further ensure that all employment practices are free of discrimination and shall maintain its equal employment opportunity and diversity policies. The **CONTRACTOR** shall furnish or make available for inspection, in a timely manner to the Office of Diversity and Inclusion, if requested, **CONTRACTOR's** Equal Opportunity Plan (subsequent updates if a version was requested and submitted at time of contract award), communications, verification of payments, and necessary reports and assistance necessary to demonstrate compliance with these provisions regarding nondiscrimination, equal opportunity, and commitment to diversity.

For contracts requiring a minimum participation level for DB or for contracts for which DB's are indicated as part of the team in the submitted initial proposal, the **CONTRACTOR** shall provide the **COMMISSION** with an executed copy of the contract with the **CONTRACTOR's** DB subconsultant(s).

There is a **XX%** minimum participation level (MPL) for DBs established for this contract. The **CONTRACTOR's** proposal in response to **RFP610000XXX** committed to meet the **XX%** MPL. The **CONTRACTOR** agrees to maintain the DB participation commitment that was identified in its proposal that was submitted in response to **RFP610000XXX** and provide monthly status reports in the form as directed by the **COMMISSION** that demonstrate that the commitment is being upheld. In the alternative, a showing of good faith effort shall be documented in the form as directed by the **COMMISSION** and be subject to the concurrence of the **COMMISSION**. Failure to make a good faith effort to maintain its DB participation commitment and to meet the minimum participation level will result in the **CONTRACTOR** being in breach of the agreement. Refer to the attached **Exhibit "X" – Diverse Business Requirements**, Section (d) Consultant Requirements During Performance of Services.

Assignment and Delegation

The **CONTRACTOR** may not transfer, assign, or delegate any terms of this Agreement, in whole or in part, without prior written permission from the **COMMISSION**.

The **CONTRACTOR** shall not engage the services of any person or persons currently employed by the **COMMISSION**, except with the **COMMISSION's** approval.

The **CONTRACTOR** shall neither assign this contract, in part or in whole, nor the right to any monies due it under this Agreement. Any part of the work to be done or material furnished under the contract shall not be sublet except to those firms indicated as part of the team in the initial Proposal, without the **COMMISSION's** prior consent in the form of a letter signed by the *Department Head (update accordingly)*.

If access to **COMMISSION** systems or data is required, all sub-contractors and the physical location of each sub-contractor, must be identified with the submitted proposal. Sub-contractors and the physical location of each sub-contractor for work order contracts must be identified for each individual work order prior to the sub-contractor commencing work or obtaining access to **COMMISSION** Systems or data.

Intellectual Property Ownership and Assignment

COMMISSION shall own all right, title, and interest in and to all Deliverables. Notwithstanding, **CONTRACTOR** hereby assigns all right, title, and interest it may have in the Deliverables to **COMMISSION**.

CONTRACTOR acknowledges that the creation of the Deliverables contemplated under this Agreement is considered a work for hire, as that term is defined in the United States Copyright Act, 17 U.S.C. §101, and that **COMMISSION** is thus the author and owner of the Deliverables. To the extent the Deliverables do not constitute a work made for hire, **CONTRACTOR** hereby assigns, conveys, and transfers to **COMMISSION**, all right, title, and interest in and to all intellectual property rights arising out of the Deliverables, including but not limited to all claims to copyright and other intellectual property rights. To the extent applicable, the foregoing assignment includes all of **CONTRACTOR'S** claims, causes of action, and rights to sue for, as well as rights to settle or release from, the infringement by any third party of any rights in and to the Deliverables and any derivatives thereof that **CONTRACTOR** may possess, whether such claims and causes of action are filed, arose, or accrued before or after the execution of this Agreement, and all remedies associated therewith.

CONTRACTOR shall assist **COMMISSION**, with no additional compensation to **CONTRACTOR**, in any and all countries, in obtaining, for the benefit of **COMMISSION**, any patents, copyrights, and other property rights concerning any Deliverables, and **CONTRACTOR** shall execute, upon request, patent, copyright, or similar applications and assignments to **COMMISSION**, and any other lawful documents deemed necessary by **COMMISSION** to carry out the purpose of this Agreement in perfecting ownership rights as specified herein.

COMMISSION acknowledges that the general ideas and concepts contained in the Deliverables may be used by **CONTRACTOR** in the normal course of **CONTRACTOR'S** business; provided that the **CONTRACTOR** may not create any work that is the same as, derivative of, or substantially similar to the Deliverables, nor be construed by a reasonable person to be a substantially similar and, therefore, competing product or project.

COMMISSION acknowledges that, as between **COMMISSION** and **CONTRACTOR**, **CONTRACTOR** owns all right, title, and interest, including all intellectual property rights, in and to the **CONTRACTOR** Intellectual Property created by **CONTRACTOR** before the parties began collaborating and incorporated into the Deliverables and, regarding Third-Party Products used by **CONTRACTOR** for developing and creating the Deliverables, the applicable third-party providers own all right, title, and interest, including all intellectual property rights, in and to the Third-Party Products.

Subject to the terms and conditions of this Agreement, **CONTRACTOR** hereby grants to **COMMISSION** a perpetual, fully paid up, non-exclusive, royalty-free, license as necessary or useful for **COMMISSION** to manufacture, use, sell, offer to sell, further develop, maintain, or otherwise commercialize the Deliverables incorporating the **CONTRACTOR** Intellectual Property and any Third-Party Products.

Audit/Retention of Records

CONTRACTOR and its subcontractors shall maintain books and records related to performance of this Agreement or subcontract and necessary to support amounts charged to the **COMMISSION** in accordance with applicable law, terms and conditions of this Agreement, and generally accepted accounting practice. **CONTRACTOR** shall maintain these books and records for a minimum of three (3) years after the completion of the Agreement, final payment, or completion of any contract, audit or litigation, whichever is later. All books and records shall be available for review or audit by the **COMMISSION**, its representatives, and other governmental entities with monitoring authority upon reasonable notice and during normal business hours. **CONTRACTOR** agrees to cooperate fully with any such review or audit. If any audit indicates overpayment to **CONTRACTOR**, or subcontractor, the **COMMISSION** shall adjust future or final payments otherwise due. If no payments are due and owing to **CONTRACTOR**, or if the overpayment exceeds the amount otherwise due, **CONTRACTOR** shall immediately refund all amounts which may be due to the **COMMISSION**. Failure to maintain the books and records required by this Section shall establish a presumption in favor of the **COMMISSION** for the recovery of any funds paid by the **COMMISSION** under this Agreement for which adequate books and records are not available to support the purported disbursement.

Dispute Resolution

All questions or disputes regarding any matter involving this Agreement or its breach shall be referred to the Board of Claims of the Commonwealth of Pennsylvania pursuant to 62 Pa.C.S.A. § 1701 *et seq.* If the Board of Claims either refuses or lacks jurisdiction, these questions or disputes shall proceed as provided in 42 Pa.C.S.A. § 7301 *et seq.* (Statutory Arbitration).

The panel of arbitrators will consist of a representative of each of the parties and a third party chosen by the representatives, or if the representatives are unable to choose, by the American Arbitration Association.

Indemnification

The **CONTRACTOR** shall be responsible for, and shall indemnify, defend, and hold harmless the **COMMISSION** and its Commissioners, officers, employees, and agents (the “Indemnified Parties”) from all claims, liabilities, damages, and costs including reasonable attorneys’ fees, for bodily injury (including death) and damage to real or tangible personal property arising from or related to the negligence or other tortious acts, errors, and omissions of **CONTRACTOR**, its employees, or its subcontractors while engaged in performing the work of this Agreement or while present on the **COMMISSION**’s premises, and for breach of this Agreement regarding the use or disclosure of proprietary and confidential information where it is determined that **CONTRACTOR** is responsible for any use of such information not permitted by this Agreement. This indemnification obligation shall not be reduced in any way by any limitation on the amount or type of damages, compensation, or benefits payable by **CONTRACTOR** or its subcontractors under any employee benefit act including but not limited to Workers’ Compensation Acts, Disability Benefits Acts, or other Employee Benefit Act.

Data/Information Security Breach Notification

“Breach” shall mean any successful unauthorized acquisition, access, use, or disclosure of **COMMISSION** data that compromises the security or privacy of such data.

“Commission Data” means **COMMISSION** provided information and **COMMISSION** related information acquired as a result of the services provided to **COMMISSION** under this Agreement.

CONTRACTOR shall report to the **COMMISSION** any Breach affecting **COMMISSION** Data. The notice to be provided to the **COMMISSION** by **CONTRACTOR** shall be provided without unreasonable delay and no later than within 72 hours of **CONTRACTOR**’s discovery of any Breach. A Breach shall be deemed to be discovered on the first day on which the **CONTRACTOR** knows or reasonably should have known of the Breach. The notice to be provided to the **COMMISSION** by **CONTRACTOR** shall be made in writing to the **COMMISSION**’s Information Security Officer and shall include the following content: (1) the nature of the Breach; (2) the specific Commission Data affected by the Breach; (3) the steps the **CONTRACTOR** is taking to remediate the Breach; and (4) steps the **CONTRACTOR** is taking to mitigate future Breaches. Following notification of the Breach, **CONTRACTOR** shall cooperate with the **COMMISSION**’s investigation of the Breach and provide any other information regarding the Breach or the Commission Data affected which the **COMMISSION** may reasonably request. Should notice to individuals whose information was part of Commission Data be required under any applicable data privacy law, including, but not limited to, individual state data breach notice laws or federal laws such as HIPAA and Gramm Leach Bliley Act, **CONTRACTOR** shall provide the **COMMISSION** with copies of any template notification letters and draft regulatory

correspondence for **COMMISSION**'s prior approval. **CONTRACTOR** shall provide any notifications required under the applicable data privacy laws on behalf of the **COMMISSION** at the request of **COMMISSION**. The **COMMISSION** reserves the right to handle any notifications required and shall notify **CONTRACTOR** if the **COMMISSION** will be handling the required notifications. Upon request, **CONTRACTOR** shall provide the **COMMISSION** with its cyber-security policies and procedures. **CONTRACTOR** agrees to reimburse the **COMMISSION** for any and all reasonable costs associated with the **COMMISSION**'s response to **CONTRACTOR**'s Breach, including any fees associated with the **COMMISSION**'s investigation of **CONTRACTOR**'s Breach, notification costs, and any reasonable offer of credit or identity monitoring product.

Liquidated Damages (This Section can be removed if not applicable to the RFP)

- (a) By accepting this Contract, the **CONTRACTOR** agrees to the delivery and acceptance requirements of this Contract. If a Contract schedule is not met, the delay will interfere with the **COMMISSION**'s program. In the event of any such delay, it would be impractical and extremely difficult to establish the actual damage for which the **CONTRACTOR** is the material cause. The **COMMISSION** and the **CONTRACTOR** therefore agree that, in the event of any such delay the amount of damage shall be the amount set forth in this Section "Liquidated Damages" and agree that the **CONTRACTOR** shall pay such amount as liquidated damages, not as a penalty. Such liquidated damages are in lieu of all other damages arising from such delay.
- (b) The **COMMISSION** and **CONTRACTOR** agree that the Deliverables identified in the Payment Schedule set forth in this Contract as "Major Deliverables" (the "Major Deliverables") shall be those for which liquidated damages shall be applicable in the event of delay of their completion beyond the delivery date specified in the Contract. If Major Deliverables are not identified in the Contract, liquidated damages shall apply to the total value of the Contract.
- (c) The amount of liquidated damages for any such Major Deliverable not completed by the deliverable schedule set out in the Contract shall **be [This % should be reviewed with each RFP/Agreement] three-tenths of a percent (0.3%)** of the price of the specifically identified Major Deliverable for each calendar day following the scheduled completion date of such Major Deliverable. Liquidated damages shall be assessed each calendar day until the date on which the **CONTRACTOR** completes such Major Deliverable, up to a maximum of thirty (30) calendar days. **CONTRACTOR** may recoup the total amount of liquidated damages assessed against previous Major Deliverables if the **CONTRACTOR** accelerates progress towards future Major Deliverables and meets the final project completion date set out in the Contract.
- (d) If, at the end of the thirty (30) day period specified in "Liquidated Damages - (c)" above, the **CONTRACTOR** has not met the schedule for completion of the Major Deliverable, then the **COMMISSION**, at no additional expense and at its option, may either:
 - (1) immediately terminate the Contract and all software, documentation, reports, Developed Materials and any other materials provided for or created for the **COMMISSION** as a result of this Contract shall be given to the **COMMISSION**, and the **COMMISSION** shall be entitled to its remedies under "Termination"; or
 - (2) order the **CONTRACTOR** to continue with no decrease in effort until the work is completed in accordance with the Contract and accepted by the **COMMISSION** or until the **COMMISSION**

terminates the Contract. If the Contract is continued, any liquidated damages will also continue until the work is completed.

- (e) At the end of the Contract term, or at such other time(s) as identified in the Contract, liquidated damages shall be paid by the **CONTRACTOR** and collected by the **COMMISSION** by deducting them from the invoices submitted under this Contract or any other contract **CONTRACTOR** has with the **COMMISSION**, by collecting them through the performance security, if any, or by billing the **CONTRACTOR** as a separate item.
- (f) To the extent that the delay is caused by the **COMMISSION**, no liquidated damages will be applied.
- (g) If the delays are caused by the default of a Subcontractor, and if such default arises out of causes beyond the control of both the **CONTRACTOR** and Subcontractor, and without their fault or negligence, the **CONTRACTOR** shall not be liable for liquidated damages for delays, unless the supplies or services to be furnished by the Subcontractor were obtainable from other sources in sufficient time to permit the **CONTRACTOR** to meet the required performance schedule.

Security Requirements

Any request for access to Commission systems or facilities for a non-Commission employee shall include criminal background information furnished by the vendor. The criminal background check must comply with state and federal law and must include the results of a National Criminal Information Database check. If a Pennsylvania resident, a pa State-wide check (EPATCH) must also be included. If a consultant is working offshore, results of an international background check will be required. IT Security will specify detailed background check requirements based upon the user's country of origin. Access will not be provided until required background checks and documentation are completed and provided by the vendor. Background checks are valid if completed within the last 5 years.

Confidentiality Provisions

1. As a consequence of the performance of its duties with the **COMMISSION**, **CONTRACTOR** may learn, be given, or become aware of Confidential Information, which includes but is not limited to matters pertaining to internal communications, information, proprietary information, individually identifiable health information, trade practices, business operations, or other sensitive information. Confidential Information also means any and all information delivered or otherwise disclosed [whether orally, in writing, in any other medium however documented (or not documented), and whether prepared by the **COMMISSION**, its advisors or otherwise] to the **CONTRACTOR**, whether already so disclosed, or now, on in the future, by or on behalf of the **COMMISSION**, including, without limitation, the **COMMISSION's** actual and proposed business(es); traffic and revenue data, historical and protected financial information; budgets; services; products; trade secrets; techniques; processes; operations; formulae; product specifications; know-how; processes; compositions; inventions; discoveries; designs; sketches; drawings; samples; formats; marketing plans and materials; analyses; strategies; forecasts; research and development; concepts; ideas; names, addresses and any other characteristics identifying information or aspects of the **COMMISSION's** existing or potential customers, employees, vendors or suppliers; or any information derived, summarized or extracted from any of the foregoing. In addition, Confidential Information shall be deemed to include all notes, analyses, compilations, studies, interpretations and other documents prepared by the **CONTRACTOR** which contain, reflect or are based upon, in whole or in part, Confidential Information.

2. Confidential Information shall not include any information that (i) is or becomes available to the public other than as a consequence of a breach by any individual, a partnership, a corporation, an association, a limited liability company, a joint stock company, a trust, a joint venture, an unincorporated organization (each a "Person") of any fiduciary duty or obligation of confidentiality, including, without limitation, catalogues, publications, product descriptions and sales literature that the **COMMISSION** has distributed to the public generally; or (ii) information which at the time of disclosure to the **CONTRACTOR** is in the public domain; or (iii) is disclosed as required by a final, unappealable court order and no suitable protective order, or equivalent remedy, is available; or (iv) the **CONTRACTOR** was aware of before its disclosure to the **CONTRACTOR** by the **COMMISSION** from a source not bound by a confidential obligation and the **CONTRACTOR** provides the **COMMISSION** written notice of such fact before the execution of this Agreement or promptly upon the **CONTRACTOR**'s learning that the information was Confidential Information; or (v) information which the **CONTRACTOR** can demonstrate with competent written evidence was independently developed by or for the **CONTRACTOR** without use of or reliance on the Confidential Information.

3. The **CONTRACTOR** acknowledges the confidential and proprietary nature of the Confidential Information and the damage that could result to the **COMMISSION** if any part of the Confidential Information were disclosed to any third party or for any other reason other than the performance of this Agreement. **CONTRACTOR** agrees to treat Confidential Information in the same way **CONTRACTOR** treats its own most confidential information. Confidential Information shall be used solely for the purpose of providing the services of this Agreement. These Confidentiality provisions shall survive the termination of this and any and all agreements between the **CONTRACTOR** and the **COMMISSION**.

4. The **CONTRACTOR** shall not under any circumstances disclose any Confidential Information without the prior written consent of the **COMMISSION** except for the permitted uses under these Confidentiality terms.

5. **CONTRACTOR** agrees to immediately notify the **COMMISSION** of any information which comes to its attention which does or might indicate that there has been any loss of confidentiality or information.

6. The **CONTRACTOR** may disclose the Confidential Information only to its employees, officers, attorneys, agents and advisors (collectively, "Representatives") if the **CONTRACTOR** advises each such Representative of these Confidentiality provisions and that by receiving or creating such information such Representatives are agreeing to be bound by this Agreement to maintain confidentiality. The **CONTRACTOR** shall provide the **COMMISSION** with prior written notice of its intent to disclose the Confidential Information to a non-employee Representative of the **CONTRACTOR**, which notice shall identify the name and address of the Representative and its relationship to the **CONTRACTOR**. The **CONTRACTOR** agrees to take appropriate action against its employees, officers, attorneys, agents, and advisors for any and all violations of this Agreement.

7. With respect to any subcontractors that **CONTRACTOR** wishes to employ to perform any of its obligations under any agreement with the **COMMISSION**, **CONTRACTOR** agrees to require any such approved subcontractor to execute written confidentiality agreements that require each such subcontractor and its employees to comply with all these requirements.

8. The **CONTRACTOR** shall be responsible for any breach of these Confidentiality Provisions by it and/or any Representative and/or any subcontractors and shall indemnify and hold the **COMMISSION** harmless from any such breach.

9. If the **CONTRACTOR** is requested or required by governmental order, judicial process or similar means

(including by oral questions, interrogatories, requests for information or documents in legal proceedings, subpoena, civil investigative demand or other similar process) to disclose any Confidential Information, it shall provide the **COMMISSION** with prior, prompt written notice of any such request or requirement so that the **COMMISSION** may seek a protective order or other appropriate remedy or waive compliance with the provisions of this Agreement. Notwithstanding the foregoing, if the **CONTRACTOR** discloses Confidential Information under these Confidentiality terms, it shall exercise such efforts as it would use to protect its own interests under similar circumstances, to preserve the confidentiality of the Confidential Information, including, without limitation, by cooperating with the **COMMISSION** to obtain an appropriate protective order or other reliable assurance that confidential treatment will be accorded the Confidential Information.

10. The **CONTRACTOR** shall return to the **COMMISSION** upon demand any and all Confidential Information created by or entrusted to it by the **COMMISSION** pursuant to this Agreement (including any and all copies, abstracts, compilations or analyses thereof and memoranda related thereto or incorporating the Confidential Information) or the **CONTRACTOR** may request permission from the **COMMISSION**, which permission may be granted or denied in the **COMMISSION**'s sole discretion, to destroy all such Confidential Information and provide a certificate of destruction to the **COMMISSION** signed by the **CONTRACTOR**.

11. The **CONTRACTOR** agrees that money damages would not be a sufficient remedy for any breach of this Agreement by the **CONTRACTOR** and/or its Representatives and that in addition to all other remedies which may be available, the **COMMISSION** shall be entitled to specific performance and injunctive or other equitable relief as a remedy for such breach and the **CONTRACTOR** further agrees to waive and to use its best efforts to cause its Representatives to waive any requirement for securing or posting of any bond in connection with such remedy.

12. **CONTRACTOR** agrees that if they had or will have an SSAE16 audit, they will comply with and abide by the findings of such audit to protect **COMMISSION** information.

Use of Unmanned Aircraft Systems

The **CONTRACTOR** shall not use or operate Unmanned Aircraft Systems (UAS) without the express written approval of the **COMMISSION**. Such approval shall be determined upon review and authorization of a written request from the **CONTRACTOR** by the **COMMISSION**'s Legal Department and UAS program managers. If approved, the **CONTRACTOR** shall execute a separate Authorization to Operate UAS or other applicable third-party agreement prepared by the **COMMISSION**'s Legal Department setting forth the necessary indemnification, release and insurance requirements. The Authorization shall define the requirements the **CONTRACTOR** must follow in order to operate UAS within **COMMISSION** right-of-way and property. All approved UAS operations shall be conducted using Small Unmanned Aircraft Rule (Part 107) (14 CFR Part 107) of the Federal Aviation Administration (FAA) Regulations.

Non-Discrimination/Sexual Harassment

The **CONTRACTOR** agrees:

a. In the hiring of any employee(s) for the manufacture of supplies, performance of work, or any other activity required under the contract or any subcontract, the **CONTRACTOR**, each subcontractor, or any person acting on behalf of the **CONTRACTOR** or subcontractor shall not discriminate by reason of race, gender, creed, color, sexual orientation, gender identity or expression, or in violation of the Pennsylvania Human Relations Act (PHRA) and applicable federal laws, against any citizen of this Commonwealth who is qualified and available to

perform the work to which the employment relates.

b. Neither the **CONTRACTOR** nor any subcontractor nor any person on their behalf shall in any manner discriminate by reason of race, gender, creed, color, sexual orientation, gender identity or expression, or in violation of the PHRA and applicable federal laws, against or intimidate any employee involved in the manufacture of supplies, the performance of work, or any other activity required under the contract.

c. Neither the **CONTRACTOR** nor any subcontractor nor any person on their behalf shall in any manner discriminate by reason of race, gender, creed, color, sexual orientation, gender identity or expression, or in violation of the PHRA and applicable federal laws, in the provision of services under the contract.

d. Neither the **CONTRACTOR** nor any subcontractor nor any person on their behalf shall in any manner discriminate against employees by reason of participation in or decision to refrain from participating in labor activities protected under the Public Employee Relations Act, Pennsylvania Labor Relations Act or National Labor Relations Act, as applicable and to the extent determined by entities charged with such Acts' enforcement, and shall comply with any provision of law establishing organizations as employees' exclusive representatives.

e. The **CONTRACTOR** and each subcontractor shall establish and maintain a written nondiscrimination and sexual harassment policy and shall inform their employees in writing of the policy. The policy must contain a provision that sexual harassment will not be tolerated and employees who practice it will be disciplined. Posting this Nondiscrimination/Sexual Harassment Clause conspicuously in easily-accessible and well-lighted places customarily frequented by employees and at or near where the contracted services are performed shall satisfy this requirement for employees with an established work site.

f. The **CONTRACTOR** and each subcontractor shall not discriminate by reason of race, gender, creed, color, sexual orientation, gender identity or expression, or in violation of PHRA and applicable federal laws, against any subcontractor or supplier who is qualified to perform the work to which the contract relates.

g. The **CONTRACTOR** and each subcontractor represents that it is presently in compliance with and will maintain compliance with all applicable federal, state, and local laws, regulations and policies relating to nondiscrimination and sexual harassment. The **CONTRACTOR** and each subcontractor further represents that it has filed a Standard Form 100 Employer Information Report ("EEO-1") with the U.S. Equal Employment Opportunity Commission ("EEOC") and shall file an annual EEO-1 report with the EEOC as required for employers' subject to Title VII of the Civil Rights Act of 1964, as amended, that have 100 or more employees and employers that have federal government contracts or first-tier subcontracts and have 50 or more employees. The **CONTRACTOR** and each subcontractor shall, upon request and within the time periods requested by the **COMMISSION**, furnish all necessary employment documents and records, including EEO-1 reports, and permit access to their books, records, and accounts by the contracting agency and the Bureau of Diversity, Inclusion and Small Business Opportunities for purpose of ascertaining compliance with provisions of this Nondiscrimination/Sexual Harassment Clause.

h. The **CONTRACTOR** shall include the provisions of this Nondiscrimination/Sexual Harassment Clause in every subcontract so that those provisions applicable to subcontractors will be binding upon each subcontractor.

i. The **CONTRACTOR's** and each subcontractor's obligations pursuant to these provisions are ongoing from and after the effective date of the contract through the termination date thereof. Accordingly, the **CONTRACTOR** and each subcontractor shall have an obligation to inform the **COMMISSION** if, at any time

during the term of the contract, it becomes aware of any actions or occurrences that would result in violation of these provisions.

j. The **COMMISSION** may cancel or terminate the contract and all money due or to become due under the contract may be forfeited for a violation of the terms and conditions of this Nondiscrimination/Sexual Harassment Clause. In addition, the **COMMISSION** may proceed with debarment or suspension and may place the **CONTRACTOR** in the Commonwealth's Contractor Responsibility Program System File.

Execution in Counterparts

This Agreement may be executed in counterparts, including counterparts transmitted electronically or by facsimile, each of which shall constitute an original of this Agreement.

Entire Agreement

This Agreement, together with any writings either attached as exhibits or incorporated by reference, constitutes the entire understanding between the parties and there are no other oral or extrinsic understandings of any kind between the parties.

Governing Law

This Agreement will be interpreted according to the laws of the Commonwealth of Pennsylvania.

Observance of Laws

The **CONTRACTOR** agrees to observe all relevant federal, state, and local laws and to obtain in its name all necessary permits and licenses.

Modification

This Agreement may be modified only by a writing signed by both parties.

[SIGNATURES ARE SET FORTH ON THE NEXT PAGE]

IN WITNESS WHEREOF, the **Pennsylvania Turnpike Commission** and **[Contractor's Name]** have executed this Agreement by their duly authorized officers on the date written above.

ATTEST:

PENNSYLVANIA TURNPIKE COMMISSION

ATTEST:

[CONTRACTOR'S NAME]

Signature _____
Date _____

Signature _____
Date _____

Name _____

Name _____

Title _____

Title _____

Federal Tax ID No. _____

Ann Louise Edwards
Assistant Secretary-Treasurer
Date _____

Michael B. Carroll
Chair
Date _____

APPROVED AS TO FORM AND LEGALITY:

Albert C. Peters II
General Litigation & Contracts Counsel
Date _____

Pennsylvania Attorney General
Date _____

	Pennsylvania Turnpike Commission	March 2020
	CONTRACTOR INTEGRITY PROVISIONS	
		Exhibit "D"

It is essential that those who seek to contract with the Pennsylvania Turnpike Commission ("Commission") observe high standards of honesty and integrity. They must conduct themselves in a manner that fosters public confidence in the integrity of the Commission contracting and procurement process.

I. DEFINITIONS. For purposes of these Contractor Integrity Provisions, the following terms shall have the meanings found in this Section:

- a. **"Affiliate"** means two or more entities where (a) a parent entity owns more than fifty percent of the voting stock of each of the entities; or (b) a common shareholder or group of shareholders owns more than fifty percent of the voting stock of each of the entities; or (c) the entities have a common proprietor or general partner.
- b. **"Consent"** means written permission signed by a duly authorized officer or employee of the Commission, provided that where the material facts have been disclosed, in writing, by prequalification, bid, proposal, or contractual terms, the Commission shall be deemed to have consented by virtue of the execution of this contract.
- c. **"Contractor"** means the individual or entity, that has entered into this contract with the Commission, and **"Contractor Related Parties"** means any affiliates of the Contractor and the Contractor's executive officers, Pennsylvania officers and directors, or owners of 5% or more interest in the Contractor
- d. **"Financial Interest"** means either:
 - i. Ownership of more than a five percent interest in any business; or
 - ii. Holding a position as an officer, director, trustee, partner, employee, or holding any position of management.
- e. **"Gratuity"** means tendering, giving, or providing anything of monetary value including, but not limited to, cash, travel, entertainment, gifts, meals, lodging, loans, subscriptions, advances, deposits of money, services, employment, or contracts of any kind. See Commission Policy 3.10, Code of Conduct.
- f. **"Non-bid Basis"** means a contract awarded or executed by the Commission with Contractor without seeking bids or proposals from any other potential bidder or offeror.

II. In furtherance of this policy, Contractor agrees to the following:

- 1. Contractor shall maintain the highest standards of honesty and integrity during the performance of this contract and shall take no action in violation of state or federal laws or regulations or any other applicable laws or regulations, or other requirements applicable to Contractor or that govern contracting or procurement with the Commission.

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	CONTRACTOR INTEGRITY PROVISIONS	Exhibit "D"

2. Contractor shall establish and implement a written business integrity policy, which includes, at a minimum, the requirements of these provisions as they relate to Contractor activity with the Commission and Commission employees and which is made known to all Contractor employees who are providing services for this agreement or who are otherwise in contact with Commission employees. Posting these Contractor Integrity Provisions conspicuously in easily-accessible and well-lighted places customarily frequented by employees working on the agreement shall satisfy this requirement.
3. Contractor, its affiliates, agents, employees and anyone in privity with Contractor shall not accept, agree to give, offer, confer, or agree to confer or promise to confer, directly or indirectly, any gratuity or pecuniary benefit to any person, or to influence or attempt to influence any person in violation of the Public Official and Employees Ethics Act, 65 Pa.C.S. §§1101 et seq.; the State Adverse Interest Act, 71 P.S. §776.1 et seq.; Commission Policy 3.10, Code of Conduct or in violation of any other federal or state law in connection with performance of work under this contract, except as provided in this contract.
4. Contractor shall not have a financial interest in any other contractor, subcontractor, or supplier providing services, labor, or material under this contract, unless the financial interest is disclosed to the Commission in writing and the Commission consents to Contractor's financial interest prior to Commission execution of the contract. Contractor shall disclose the financial interest to the Commission at the time of bid or proposal submission, or if no bids or proposals are solicited, no later than Contractor's submission of the contract signed by Contractor.
5. Contractor certifies to the best of its knowledge and belief that within the last five (5) years Contractor or Contractor Related Entities have not:
 - a. been indicted or convicted of a crime involving moral turpitude or business honesty or integrity in any jurisdiction;
 - b. been suspended, debarred or otherwise disqualified from entering into any contract with any governmental agency;
 - c. had any business license or professional license suspended or revoked;
 - d. had any sanction or finding of fact imposed as a result of a judicial or administrative proceeding related to fraud, extortion, bribery, bid rigging, embezzlement, misrepresentation or anti-trust; and
 - e. been, and is not currently, the subject of a criminal investigation by any federal, state or local prosecuting or investigative agency and/or civil anti-trust investigation by any federal, state or local prosecuting or investigative agency.

If Contractor cannot so certify to the above, then it must submit along with its bid, proposal or contract a written explanation of why such certification cannot be made and

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the Commission will determine whether a contract may be entered into with the Contractor. The Contractor's obligation pursuant to this certification is ongoing from and after the effective date of the contract through the termination date thereof. Accordingly, the Contractor shall have an obligation to immediately notify the Commission in writing if at any time during the term of the contract if becomes aware of any event which would cause the Contractor's certification or explanation to change. Contractor acknowledges that the Commission may, in its sole discretion, terminate the contract for cause if it learns that any of the certifications made herein are currently false due to intervening factual circumstances or were false or should have been known to be false when entering into the contract.

6. Contractor shall comply with the requirements of the Lobbying Disclosure Act (65 Pa.C.S. §13A01 et seq.) regardless of the method of award. If this contract was awarded on a Non-bid Basis, Contractor must also comply with the requirements of the Section 1641 of the Pennsylvania Election Code (25 P.S. §3260a).
7. When Contractor has reason to believe that any breach of ethical standards as set forth in law, Commission Policy 3.10, Code of Conduct, or these Contractor Integrity Provisions has occurred or may occur, including but not limited to contact by a Commission officer or employee which, if acted upon, would violate such ethical standards, Contractor shall immediately notify the Commission contracting officer or the Chief Compliance Officer in writing.
8. Contractor, by submission of its bid or proposal and/or execution of this contract and by the submission of any bills, invoices or requests for payment pursuant to the contract, certifies and represents that it has not violated any of these Contractor Integrity Provisions in connection with the submission of the bid or proposal, during any contract negotiations or during the term of the contract, to include any extensions thereof. Contractor shall immediately notify the Commission in writing of any actions for occurrences that would result in a violation of these Contractor Integrity Provisions. Contractor agrees to reimburse the Commission for the reasonable costs of investigation incurred by the Chief Compliance Officer for investigations of the Contractor's compliance with the terms of this or any other agreement between the Contractor and the Commission that results in the suspension or debarment of the Contractor. Contractor shall not be responsible for investigative costs for investigations that do not result in the Contractor's suspension or debarment.
9. Contractor shall cooperate with the Chief Compliance Officer in investigating any alleged Commission agency or employee breach of ethical standards and any alleged Contractor non-compliance with these Contractor Integrity Provisions. Contractor agrees to make identified Contractor employees available for interviews at reasonable times and places. Contractor, upon the inquiry or request of the Chief Compliance Officer, shall provide, or if appropriate, make promptly available for inspection or copying, any information of any type or form deemed relevant by the Chief Compliance Officer to Contractor's integrity and compliance with these provisions. Such information may include, but shall not be

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limited to, Contractor's business or financial records, documents or files of any type or form that refer to or concern this contract. Contractor shall incorporate this paragraph in any agreement, contract or subcontract it enters into in the course of the performance of this contract/agreement solely for the purpose of obtaining subcontractor compliance with this provision. The incorporation of this provision in a subcontract shall not create privity of contract between the Commission and any such subcontractor, and no third party beneficiaries shall be created thereby.

10. For violation of any of these Contractor Integrity Provisions, the Commission may terminate this and any other contract with Contractor, claim liquidated damages in an amount equal to the value of anything received in breach of these Provisions, claim damages for all additional costs and expenses incurred in obtaining another contractor to complete performance under this contract, and debar and suspend Contractor from doing business with the Commonwealth. These rights and remedies are cumulative, and the use or non-use of any one shall not preclude the use of all or any other. These rights and remedies are in addition to those the Commission may have under law, statute, regulation, or otherwise.

Cell Tower Lease Consultant

RFP #6100011732

Following is the required information for the Proposer identified below for the above referenced RFP.

Proposer Information:	
Proposer Company Name	
Proposer Mailing Address	
Proposer Website	
Proposer Contact Person/Title	
Contact Person's Phone Number	
Contact Person's Fax Number	
Contact Person's Email Address	
Proposer Federal ID Number	
Location of Headquarters	
Location of Office(s) Performing the Work	
Listing of all Pennsylvania Offices and Total Number of Pennsylvania Employees	

State Adverse Interest Act:
I have reviewed the State Adverse Interest Act and determined that there is no adverse interest for anyone on this Agreement team. <i>Check this box to indicate concurrence.</i> <input type="checkbox"/>

Submittals in Commission Vendor Portal:
<input type="checkbox"/> Technical Submittal <input type="checkbox"/> Diverse Business Participation Submittal <input type="checkbox"/> Cost Submittal
Signature
Signature of an official authorized to bind the Proposer to the provisions contained in the Proposer's proposal: _____
Print Name
Title

An official authorized to bind the Proposer to its provisions must sign the proposal. If the official signs this Proposal Cover Sheet and the Proposal Cover Sheet is submitted in the Commission's Vendor Portal, the requirement will be met.

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	COMMISSION SECURITY REQUIREMENTS	Appendix "C"

General Security Requirements

1. Vendor shall supply all hosting equipment (hardware and software) required for performance of the contract and ensure maintenance and replacement as necessary to maintain compliance with the Service Level Agreement(s).
2. The vendor shall warrant all system/software to be delivered free of malware or other malicious or destructive code.
3. All application code should be written to comply with secure coding guidelines such as the Open Web Application Security Project (OWASP). Scans on custom code should be performed and reviewed to identify coding vulnerabilities prior to moving to production.
4. In the event of adverse risk findings through an audit or assessment, the vendor shall cooperate with the Commission in remediating any risks to the system, including complying with requests to temporarily take the system offline or otherwise limit access to the system during remediation if warranted.
5. Vendors must have a plan for compliance with all applicable breach notification laws, including Pennsylvania's Breach of Personal Information Notification Act (73 P.S. Section 2301 et. seq.).
6. The Commission must be notified in writing within 72 hours of the earliest indication or report of a potential breach or unintended disclosure of confidential information. Vendor is responsible to notify the Commission of any potential breach or unintended disclosure of confidential information that occurred with its subcontractors.
7. Incident response actions that may affect confidential information must be conducted quickly and with ample resources. Vendor must hire a professional third-party incident response team if its inhouse resources do not have sufficient skill or availability.
8. The Commission shall have the right to view all incident response evidence, reports, communications, and related materials, affecting Commission systems, upon request.
9. If requested by the Commission, or if required by law, the vendor, at its own cost and expense, shall notify in writing all persons affected by the incident.
10. The vendor is responsible for hardening all devices to run only the services required to support the application. All unnecessary services must be disabled (for example, UPnP, SLP, etc.).
11. If Commission user service disruptions are expected, the change must be approved by the Change Review Board (CRB) before implementation.
12. No generic user accounts for shared resources will be permitted.
13. The Commission requires that all mobile devices that connect to Commission applications be enrolled and managed into our current Mobile Device Management (MDM) solution. No other

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Enterprise MDM profile or software can be installed in parallel. Audit logs must be implemented for all systems. All actual or attempted violations of system security must generate an audit log. Audit logs must be secured against unauthorized access or modification.

14. All account credentials (username/password) must be encrypted during transmission.
15. All administrator account passwords and SNMP community strings must be changed from the manufacturer's default values to a hardened value.
16. Any request for access to Commission systems or facilities for a non-Commission employee shall include criminal background information furnished by the vendor. The criminal background check must comply with state and federal law and must include the results of a National Criminal Information Database check. If a Pennsylvania resident, a PA State-wide check (ePATCH) must also be included. If a consultant is working offshore, results of an international background check will be required. IT Security will specify detailed background check requirements based upon the user's country of origin. Access will not be provided until required background checks and documentation are completed and provided by the vendor. Background checks are valid if completed within the last 5 years.

Hosted/Cloud-Based Security Requirements

1. The Commission's data must be located and remain within the continental United States.
2. Vendor shall use commercially reasonable resources and efforts to maintain adequate internet connection bandwidth, service capacity, and ensure its data center and/or other vendors performing subcontracted services have industry standard physical, technical, human, and administrative controls.
3. Vendor shall house all services and equipment in an operational environment that meets industry standards including climate control, fire and safety hazard detection, redundancy, electrical needs, and physical security.
4. If access is required, then the Azure cloud platform must be used for authentication and authorization, and the Identity Provider must be the Commission's Azure AD tenant.
5. For any system accessing Commission resources, Azure Multi-Factor Authentication must be supported and used.
6. When SAML authentication is used for any system, the vendor must use Service Provider-initiated authentication.
7. PTC uses a centralized Identity and Access Management (IAM) solution for managing the identity and access lifecycle management tasks for employees, consultants, Business Partners (BPs), non-network accounts, and system accounts. For all applications (on-prem and cloud-

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based) and systems, the IAM life cycle tasks such as provision, de-provision, profile updates, application authorization role assignments or removal must be managed by PTC's IAM system (myIdentity). This applies to individual user accounts as well as system accounts associated with the applications and systems such as service accounts, privileged accounts.

8. All cloud-based/hosted systems using HTTPS, or any other protocol using SSL/TLS, must use TLS 1.2 or later with a key size no smaller than 2048 bits.
9. For public-facing systems, the vendor shall utilize a third-party certificate provider who is a recognized and trusted authority in the industry.
10. The vendor is responsible for sending the Commission system/network vulnerability scan results upon request.
11. The vendor will supply firewall and IPS logs for malicious intrusion and access attempts into hosted Commission systems in the event of a security incident to assist with an investigation.
12. Vendors must have, and upon request by the Commission, shall make viewable to the PTC its information security policies that cover the following elements:
 13. Data classification and privacy
 14. Security training and awareness
 15. Systems administration, patching, and configuration
 16. Application development and code review
 17. Incident response
 18. Workstation management, mobile devices, and antivirus
 19. Backups, disaster recovery, and business continuity
 20. Regular audits and testing
 21. Requirements for third-party business partners and contractors
 22. Compliance with information security or privacy laws, regulations, or standards
23. The vendor shall allow the Commission, or an agreed upon third party, to perform security assessments, vulnerability assessments, or audits of systems that contain Commission data.
24. For systems hosted off the Commission's network, an industry-accepted endpoint protection solution must be operated on all hosting servers.

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On-Prem/Physically-Connected Security Requirements

1. The Commission’s IT Security Team must be allowed to scan, for security vulnerabilities, any new equipment and/or changes to existing equipment before implementation.
2. The Commission’s IT Security team must be given administrator-level access to all installed equipment for incident response and security assessment.
3. All Microsoft Windows-based systems, connected to the Commission’s network, will be joined to the Commission’s Active Directory domain and will be patched by the Commission’s IT staff on a monthly-basis at a minimum.
4. The vendor is responsible for updating all non-Windows systems, not operated or administered by the Commission, to the vendors’ latest recommended level.
5. If remote access is needed, the vendor must use HorizonView. If using VPN for remote access, a Commission owned and managed device is required.
6. If local connectivity to the Commission’s network is needed, a Commission-owned and managed device is required. Vendor-owned devices are not permitted to be connected to the network.
7. The vendor’s system/software must co-exist with all industry accepted endpoint software with no exceptions.
8. The vendor must provide the necessary directory and file exclusions to allow the system/software to operate as intended.

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	INSURANCE REQUIREMENTS	Appendix "D"


Before starting any work and until completion and final payment is made for the work, or final acceptance of the work, the Proposer will provide and maintain the following minimum levels of insurance at Proposer's own expense. The cost of the required insurance shall be included in the Proposer's cost proposal and no adjustment shall be made to the contract price on account of such costs. Proposer shall furnish Certificates of Insurance showing the effective date of coverage as outlined below. No work may be performed until the required evidence of Insurance is provided in accordance with the terms of the contract. Proposer shall be responsible for ensuring that all Subcontractors hired by the Proposer are properly insured. Proposer shall not permit any such Subcontractors to start work until such evidence has been provided to the Proposer.

- a) All insurance shall be procured from insurers permitted to do business in the State in which the project is taking place and having an A.M. Best Rating of at least "A-, Class VIII".
- b) Proposer shall not have a Self-Insured Retention (SIR) on any policy greater than \$50,000, which is the responsibility of the Proposer. If Proposer's policy(ies) has a Self-Insured Retention exceeding this amount, approval must be received from the Commission prior to starting work. In the event any policy includes an SIR, the Proposer is responsible for payment within the SIR of their policy(ies) and the Additional Insured requirements specified herein shall be offered within the SIR amount(s).
- c) All insurance required herein, except for Professional Liability Insurance, shall be written on an "occurrence" basis.
- d) Contractor shall accept, insofar as work covered by the contract is concerned, the provisions of the Workmen's Compensation Act of 1915, and its supplements or amendments, and shall insure his liability thereunder or file with the Commission, a certificate of exemption from insurance from the Bureau of Workmen's Compensation of the Department of Labor and Industry
- e) The Proposer's insurance carrier(s) shall agree to provide at least thirty (30) days prior written notice to the Commission in the event coverage is canceled or non-renewed, unless cancellation is for non-payment of premium. In the event of cancellation or non-renewal of coverage(s) for any reason, it is the Proposer's responsibility to replace coverage to comply with the Contract requirements so there is no lapse of coverage for any time period.

If the insurance carriers will not issue or endorse their policy(s) to comply with the above, it is the responsibility of the Proposer to report any notice of cancellation or non-renewal at least thirty (30) days prior to the effective date of this notice.

- f) Proposer shall provide the Commission with Certificates of Insurance, showing the insurance coverages listed below, ten days prior to the start of work of this Project and thereafter upon renewal or replacement of each coverage. The Proposer shall not begin any work until the Commission has reviewed and approved the Certificate of Insurance.

Failure of the Commission to demand such certificate or other evidence of full compliance with these insurance requirements or failure of the Commission to identify a deficiency from evidence that is provided shall not be construed as a waiver of Proposer's obligation to maintain such insurance.

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Upon completion of the contract, an additional certificate(s) of insurance evidencing coverage shall be provided to the Commission with final application for payment.

- g) The Commission, and its Commissioners, officers, employees and agents shall be added as ADDITIONAL INSUREDS on all required liability policies (except Workers' Compensation and Professional Liability) for ongoing operations and completed operations on a primary noncontributory basis.
- h) Waiver of Rights of Subrogation: Proposer shall waive all rights of recovery against the Commission and all the additional insureds for loss or damage covered by any of the required insurance (except Professional Liability).
- i) The amount of insurance in the required coverages shall not be construed to be a limitation of the liability on the part of the Proposer.
- j) The carrying of insurance described below shall in no way be interpreted as relieving the Proposer of any responsibility or liability under the contract.
- k) Any type of insurance or any increase in limits of liability not required by the Commission but which the Proposer requires for its own protection or on account of statute shall be its own responsibility and at its own expense.
- l) Proposer shall promptly notify the Commission and the appropriate insurance company(ies) in writing of any accident(s) as well as any claim, suit or process received by the insured Proposer arising in the course of operations under the contract. The Proposer shall forward such documents received to its insurance company(ies), as soon as practicable, or as required by its insurance policy(ies).

REQUIRED COVERAGES - the following may be provided through a combination of primary and excess policies in order to meet the minimum limits set forth below:

Workers' Compensation and Employer's Liability:


Provided in the State in which the work is to be performed and elsewhere as may be required and shall include:

- a) Workers' Compensation Coverage: Statutory Requirements
- b) Employers Liability Limits not less than:

Bodily Injury by Accident:	\$500,000 Each Accident
Bodily Injury by Disease:	\$500,000 Each Employee
Bodily Injury by Disease:	\$500,000 Policy Limit
- c) Includes sole proprietorships and officers of corporation who will be performing the work.

Commercial General Liability:

Provided on standard ISO forms or an equivalent form including Premises - Operations, Independent Proposers, Products/Completed Operations, Broad Form Property Damage, Contractual Liability, and Personal Injury and Advertising Injury.

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- a) Occurrence Form with the following limits:
 - (1) General Aggregate: \$2,000,000
 - (2) Products/Completed Operations Aggregate: \$2,000,000
 - (3) Each Occurrence: \$1,000,000
 - (4) Personal and Advertising Injury: \$1,000,000

Automobile Liability:


- a) Coverage to include All Owned, Hired and Non-Owned Vehicles (or "Any Auto"). If Proposer does not have any Owned Vehicles, Proposer is still required to maintain coverage for Hired and Non-Owned Vehicles as either a stand-alone policy or endorsed onto the Commercial General Liability policy above
- b) Per Accident Combined Single Limit \$1,000,000

Commercial Umbrella Liability:

- a) Policy(ies) to apply on a Following Form Basis of the following:
 - (1) Commercial General Liability,
 - (2) Automobile Liability, and
 - (3) Employers Liability Coverage.
- b) Minimum Limits of Liability
 - Occurrence Limit: \$4,000,000
 - Aggregate Limit (where applicable): \$4,000,000

Professional Liability Insurance:

- a) Minimum Limits of Liability
 - Per Claim Limit: \$ 2000,000
 - Aggregate Limit: \$ 2,000,000
- b) The Definition of "Covered Services" shall include the services required in the scope of this contract.
- c) If Professional Liability coverage is written on a claims made form the following requirements will apply:
 - 1) The retroactive date must be on or before the start of work under this contract;
 - 2) In the event of policy cancellation or non-renewal, the Proposer must purchase "tail coverage/an extended reporting period" or maintain coverage for a period of three (3) years after the completion of their work/final payment.

	Pennsylvania Turnpike Commission	July 2014
	DIVERSE BUSINESS (DB) REQUIREMENTS	Appendix "E"

REQUIREMENTS

Diverse Business Participation. The Commission is committed to Diverse Business (DB) participation on competitive contracting opportunities. Firms or entities that have not previously performed work or provided services to the Commission are encouraged to respond to the solicitations. RFPs may include DB participation as part of the criteria for the evaluation of proposals, and the Commission may consider DB participation as a selection factor.

Minimum Participation Level (MPL). The minimum participation level (MPL) for the inclusion of DBs will be established in the RFP/advertisement as a percentage.

(a) General Requirements. Section 303 of Title 74 of the Pennsylvania Consolidated Statutes, 74 Pa.C.S. § 303, requires proposer on contracts funded pursuant to the provisions of Title 74 (Transportation) and 75 (Vehicle Code) administered and issued by the Commission to make Good Faith Efforts to solicit subconsultants that are Diverse Businesses (DBs) as defined in Section 303. The DB requirements of Section 303 apply to this contract.

Section 303 requires proposers to make Good Faith Efforts, as described below, to solicit subconsultants that are DBs during the proposal process to maximize participation of DBs in competitive contracting opportunities.

The Commission is committed to participation by DBs and will enforce the requirements of Section 303 and this section. Failure to make Good Faith Efforts and demonstrate such Good Faith Efforts in the solicitation of subconsultants may result in the proposer being declared ineligible for the contract.

Proposers shall document and submit to the Commission all Good Faith Efforts, as described in this section, to solicit subconsultants that are DBs during the solicitation process.

Proposers are encouraged to utilize and give consideration to consultants offering to utilize DBs in the selection and award of contracts.

Proposers shall not discriminate on the basis of gender, race, creed or color in the award and performance of contracts in accordance with 62 Pa.C.S. §3701.

Failure to comply with the requirements of Section 303 or this specification may result in the imposition of sanctions as appropriate under section 531 of the Procurement Code, 62 Pa.C.S. § 531 relating to debarment and suspension.

The Commission's Director of the Office of Diversity and Inclusion, or designee, is designated the Responsible Official who shall supervise the DB program and ensure that the Commission complies with the DB program.

(b) Definitions. The following definitions apply to terms used in this specification:

1. Disadvantaged Business – A business that is owned or controlled by a majority of persons, not limited to members of minority groups, who are subject to racial, social, ethnic prejudice or cultural bias.

2. Diverse Business – A disadvantaged business, minority-owned or women-owned business or service-disabled veteran-owned or veteran-owned small business that has been certified by a third-party certifying organization.

3. Minority-owned Business – A business owned and controlled by a majority of individuals who

are African Americans, Hispanic Americans, Native Americans, Asian Americans, Alaskans or Pacific Islanders.

4. Professional Services – An industry of infrequent, technical or unique functions performed by independent contractors or consultants whose occupation is the rendering of the services, including: (1) design professional services as defined in 62 Pa.C.S. § 901 (relating to definitions); (2) legal services; (3) advertising or public relations services; (4) accounting, auditing or actuarial services; (5) security consultant services; (6) computer and information technology services; and (7) insurance underwriting services.

5. Pro Forma Effort – The act of completing a form or document identifying efforts to solicit DBs for a project in order to satisfy criteria with little or no expectation that the DBs contacted or identified will perform any of the work.

6. Service-Disabled Veteran-Owned Small Business – A business in the United States which is independently owned and controlled by a service-disabled veteran(s), not dominant in its field of operation, and employs 100 or fewer employees.

7. Subconsultant – Any individual, partnership, firm, or corporation entering into a contract with the prime consultant for work under the contract, including those providing professional and other services.

8. Third-party Certifying Organization – An organization that certifies a small business, minority-owned business, women-owned business or veteran-owned small business as a diverse business. The term includes: (1) the National Minority Supplier Development Council; (2) the Women’s Business Development Enterprise National Council; (3) the Small Business Administration; (4) The Department of Veteran Affairs; (5) the Pennsylvania Unified Certification Program.

9. Veteran-owned Small Business – A small business owned and controlled by a veteran or veterans.

10. Women-Owned Business – A business owned and controlled by a majority of individuals who are women.

(c) Actions Required by Proposer during the procurement/consultant selection phase

1. Submission Requirements – Consultant Responsiveness.

- a. **Minimum Participation Level (MPL) Documentation** - If the documentation submitted with the proposal demonstrates that the proposer has identified DBs sufficient to meet the MPL established for this contract, the proposer will be deemed to have satisfied the DB requirement during this phase. The proposer is required to provide the business name and business address of each DB and supporting documentation that includes proof of certification.

If the consultant’s proposal demonstrates the consultant’s inability to meet the MPL established for this contract, the proposer shall demonstrate Good Faith Efforts with its proposal. Failure to submit the required documentation demonstrating Good Faith Efforts as further described below with the proposal may result in a rejection of the

proposal.

- b. If no MPL has been established for this contract, the proposer is required to either provide a statement of intent that it will self-perform 100% of the work for the agreement, or demonstrate Good Faith Efforts to solicit subconsultants that are DBs. In either case documentation shall be provided with the proposal.

Failure to submit the required information identified above with the proposal may result in a rejection of the proposal.

2. Good Faith Effort Requirements: The documentation of Good Faith Efforts must include the business name and business address of each DB considered. Supporting documentation must also include proof of certification and any explanation of Good Faith Efforts the proposer would like the Commission to consider. Any services to be performed by a DB are required to be readily identifiable to the agreement. Good Faith efforts are demonstrated by seeking out DB participation in the project given all relevant circumstances. The Commission requires the proposer to demonstrate more than Pro Forma Efforts. Evidence of Good Faith Efforts includes, but is not limited to:

- a. Consultant solicits through all reasonable and available means the interest of all certified DBs with the capacity to perform the scope of work set forth in the agreement.
- b. The proposer must provide written notification at least 5 business days before proposals are due to allow the DBs to respond to the solicitation.
- c. The proposer must determine with certainty if DBs are interested by taking appropriate steps to follow up initial solicitations.
- d. The proposer must make efforts to select portions of the work to be performed by DBs to include, where appropriate, breaking out contract work into economically feasible units to facilitate DB participation;
- e. It is the proposer's responsibility to make a portion of the work available to DBs and, to select those portions of the work, so as to facilitate DB participation.
- f. The proposer shall provide evidence of such negotiations that include the names, addresses, and telephone numbers of DBs considered; A description of the information provided regarding the required work and services for the work selected for subconsultants; and evidence as to why additional agreements could not be reached for DBs to perform the work.
- g. Proposers cannot reject or withhold solicitation of DBs as being unqualified without sound reasons based on a thorough investigation of their capabilities.
- h. The DB's standing within its industry, membership in specific groups, organizations or associations and political or social affiliations (for example union v. non-union employee status) are not legitimate causes for the rejection or non-solicitation of proposals in the proposer's efforts to meet the Good Faith Efforts requirement.
- i. Efforts to assist interested DBs in obtaining bonding, lines of credit or insurance.

3. Actions Taken by the Commission. As part of the proposal review process, the Commission will review the submissions to determine whether the proposer has complied with Section 303 and this requirement in the selection of DB subconsultants. The Commission will determine whether the proposer has either met the MPL or provided acceptable documentation as noted above. The Commission reserves the right to contact proposers for clarification during the review and negotiation

process.

If the Commission determines that the proposer has failed to either meet the MPL or provide acceptable documentation as noted above, the proposal may be rejected.

(d) Consultant Requirements During Performance of Services.

1. Replacement of a DB Subconsultant. Consultant must continue good faith efforts through completion of the contract. The obligation to make Good Faith Efforts to solicit subconsultants for any type of service extends to additional work required for any service which is identified to be performed by a DB. If at any time during the performance of the work, it becomes necessary to replace or add a subconsultant that is a DB, the consultant, as appropriate, shall immediately notify the Commission and seek approval in writing in accordance with the Agreement of the need to replace the DB, which notice shall include the reasons for the replacement. If a prime consultant who originally indicated that it would self-perform all work subsequently decides to use a subconsultant for any work under the contract, the consultant must submit documentation of all Good Faith Efforts as to the work for which a subconsultant is obtained.

2. Records. Maintain project records as are necessary to evaluate DB compliance and as necessary to perform the reporting function addressed below. Maintain all records for a period of 3 years following acceptance of final payment. Make these records available for inspection by the Commission, its designees or agents. These records should indicate:

2.a. The number of DB and non-DB subconsultants and the type of services performed on or incorporated in this project.

2.b. The progress and efforts made in seeking out DB subconsultant organizations and individual DB consultants for work on this project to increase the amount of DB participation and/or to maintain the commitments made at the time of the proposal to DBs.

2.c. Documentation of all correspondence, contacts, telephone calls, and other contacts made to obtain the service of DBs on this project.

3. Reports. Maintain monthly reports and submit reports as required by the Commission concerning those contracts and other business executed with DBs with respect to the records referred to in subsection (e)2. above in such form and manner as prescribed by the Commission. At a minimum, the Reports shall contain the following:

3.a The number of Contracts with DBs noting the type of services provided, including the execution date of each contract.

3.b The amounts paid to each DB during the month, the dates of payment, and the overall amounts paid to date. If no payments are made to a DB during the month, enter a zero (\$0) payment.

3.c Upon request and upon completion of individual DB firm's work, submit paid invoices or a certification attesting to the actual amount paid. In the event the actual amount paid is less than the award amount, a complete explanation of difference is required.

4. Subconsultant Contracts

4.a. Subcontracts with DB firms will not contain provisions waiving legal rights or remedies provided by laws or regulations of the Federal Government or the Commonwealth of Pennsylvania or the Commission through contract provisions or regulations.

4.b. Prime consultant will not impose provisions on DB subconsultants that are more onerous or restrictive than the terms of the prime's contract with non-DBs.

4.c. Executed copies of subcontracts/purchase orders are to be received by the Commission before the commencement of work by the DB.

5. Payments to DB Subconsultants. Payments to DBs are to be made in accordance with the prompt payment requirements of Chapter 39, Subchapter D of the Procurement Code, 62 Pa.C.S. §3931 et seq. Performance of services by a DB subconsultant in accordance with the terms of the contract entitles the subconsultant to payment.

(e) Actions to be Taken by Commission After Performance of Services. Following completion of the Consultant's services, the Director of the Commission's Office of Diversity and Inclusion or his/her designee will review the overall DB participation to assess the Consultant's compliance with Section 303 and this contract. Appropriate sanctions may be imposed under 62 Pa.C.S. § 531 (relating to debarment or suspension) for a Consultant's failure to comply with Section 303 and the requirements of the contract.

Cell Tower Lease Consultant

RFP #6100011732

Edit as necessary

Vendor-Owned and Third-party Intellectual Property (IP)

- Vendor should list their own or third-party IP intended to be used as part of the proposed solution.
- If the Vendor does not have any IP to disclose, enter "None" in the form.

No.	Description of the IP	Type of IP (ex. patent, copyright, trademark, service mark)	IP Owner	IP Registration Details (ex. registration number, date)
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

PENNSYLVANIA TURNPIKE COMMISSION

SUMMARY OF TOWER DATA FOR EXISTING PTC TOWER SITES



SEPTEMBER 29, 2020



W.O. 8454.05

WBS Element No. EN-0017
Purchase Order No. 4100113121



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**PENNSYLVANIA TURNPIKE COMMISSION
SUMMARY OF TOWER DATA
FOR EXISTING PTC TOWER SITES
W.O. 8454.05
SEPTEMBER 29, 2020**

INTRODUCTION

Tectonic Engineering & Surveying Consultants P.C. (Tectonic) has prepared this Summary of Tower Data for each of the existing PTC tower sites in order to summarize the most important information regarding the existing towers owned by the Pennsylvania Turnpike Commission (PTC) in a concise format.

This document is intended to be a convenient reference for Turnpike employees, its consultants, and other interested parties.

A total of sixty (60) existing towers are currently included in this document. These consist of forty-five (45) three-legged self-supporting towers, one (1) four-legged self-supporting tower, and fourteen (14) monopoles. Other small structures which support antennas for the PTC's communications, such as pipe mounts or tripods on buildings, utility poles, and light standards, are not incorporated herein.

Four (4) existing PTC towers have been removed in recent years, and are also not included in this document:

- Big Boulder
- New Cumberland
- Plymouth Meeting
- Willow Grove

New towers to replace the existing towers at Big Boulder and Willow Grove have been constructed.

This document is preliminary, and is intended for review and comment by PTC personnel at this time.

SOURCES OF INFORMATION

Latitude and longitude coordinates for each tower are listed at center of tower, per Google Earth. These coordinates may differ to some degree from those listed in various reports and other documents prepared by Tectonic and others.

These coordinates have been rounded to the nearest tenth of a second, which is within approximately five (5) feet of the precise location of the tower center.



W.O. 8454.05
Pennsylvania Turnpike Commission
Summary of Tower Data

September 29, 2020

Ground elevations were also determined from Google Earth, which are considered to be accurate to within approximately three (3) feet.

Tower heights are nominal, based on the tower manufacturer's drawings, where available. The nominal heights are not exact, but they are intended to show the vertical height from the base plate to the top of steel. Antennas, lights, and other appurtenances may increase the overall height.

The tower heights listed in some mapping reports are based on field measurements, which may differ from the nominal height, and may also incorporate manufacturing tolerances, foundation height above grade, and possible errors in measurement.

The listed municipalities were identified from information provided by Google Maps and other sources on the internet. Some of the towers appear to be very close to a municipal boundary, and an accurate determination cannot be assured near such boundaries without an actual survey.

The nearest mile markers listed are approximate, and were estimated from the PA Turnpike online map at <https://www.paturnpike.com/webmap/PTCIE-2.aspx>. Mile markers for towers that are not immediately adjacent to the Turnpike were estimated by drawing a perpendicular line from the tower to the nearest point of the Turnpike roadway.

The listed structural analysis results for each tower are based on the most recent calculations by Tectonic or others.

Please contact us if you have any comments, questions, or concerns regarding this information.

Prepared by: 
Jeffrey B. Kirby, P.E., SECB
Executive Director of Engineering

File: TwrSummary-Narrative.doc



SUMMARY OF PTC TOWER DATA

PTC SITE NAME:	AKH Maint	PTC DISTRICT:	1
PSP SITE NAME/NUMBER:	N/A		
LOCATION:	Jeannette	COORDINATES:	D M S
PTC MILE POST:	G-7.0	Latitude N	40.316000 40 18 57.6
COUNTY:	Westmoreland	Longitude W	79.586278 79 35 10.6
MUNICIPALITY:	Hempfield Township		
TOWER TYPE:	Self-Support	Number of Sections:	9
HEIGHT:	176'	Future Extension:	No
MANUFACTURER:	Rohn	Top Width:	6.6'
YEAR BUILT:	Unknown	Base Width:	20.8'
FOUNDATION TYPE:	Drilled Piers	Tower Lights:	No
OWNER:	PTC		
TENANTS:	None		
FIELD INVESTIGATIONS:	Structure Mapping	Apr-2017	By: RTS
	Foundation Mapping	Mar-2017	By: DOG
	Geotechnical Report	Jul-2018	By: Tectonic Engineering
	Resistivity	Pending	
CONDITION INSPECTIONS:	TIA Annex J	Apr-2017	By: RTS
	Post-Modification	N/A	
STRUCTURAL ANALYSIS:	Date:	6/8/20	By: Tectonic Engineering
	TIA-222 Revision:	H	
	Structure Class / Risk Category:	III	
	Exposure Category:	C	Basic Wind Speed: 117 mph
	Topographic Category:	1	Wind Speed with Ice: 40 mph
	Crest Height:	0'	Design Ice Thickness: 1.00 inch
	Ground Elevation:	1260'	
MODIFICATIONS:	None		
CAPACITY RATING:	Legs:	63%	
	Bracing:	54%	
	Anchor Bolts:	35%	
	Foundation:	65%	
AVAILABLE RESERVE CAPACITY:		35%	



SUMMARY OF PTC TOWER DATA

PTC SITE NAME:	Allegheny Tunnel	PTC DISTRICT:	2
PSP SITE NAME/NUMBER:	N/A		
LOCATION:	Berlin	COORDINATES:	D M S
PTC MILE POST:	T-123.0	Latitude N	39.959694 39 57 34.9
COUNTY:	Somerset	Longitude W	78.852667 78 51 9.6
MUNICIPALITY:	Allegheny Township		
TOWER TYPE:	Self-Support	Number of Sections:	8
HEIGHT:	147'	Future Extension:	No
MANUFACTURER:	PiRod	Top Width:	4.5'
YEAR BUILT:	1997	Base Width:	16.0'
FOUNDATION TYPE:	Drilled Piers	Tower Lights:	No
OWNER:	AT&T		
TENANTS:	PTC		
FIELD INVESTIGATIONS:	Structure Mapping	Nov-2015	By: VSI
	Foundation Mapping	Oct-2015	By: VSI
	Geotechnical Report	Jun-1997	By: PSI
	Resistivity	N/A	
CONDITION INSPECTIONS:	TIA Annex J	Nov-2015	By: VSI
	Post-Modification	N/A	
STRUCTURAL ANALYSIS:	Date:	6/30/16	By: Tectonic Engineering
	TIA-222 Revision:	G	
	Structure Class / Risk Category:	III	
	Exposure Category:	C	Basic Wind Speed: 90 mph
	Topographic Category:	4	Wind Speed with Ice: 40 mph
	Crest Height:	400'	Design Ice Thickness: 0.75 inch
	Ground Elevation:	2734'	
MODIFICATIONS:	None		
CAPACITY RATING:	Legs:	140%	
	Bracing:	164%	
	Anchor Bolts:	58%	
	Foundation:	<u>106%</u>	
AVAILABLE RESERVE CAPACITY:		-64%	



SUMMARY OF PTC TOWER DATA

PTC SITE NAME:	American Tower	PTC DISTRICT:	5
PSP SITE NAME/NUMBER:	N/A		
LOCATION:	Slatington	COORDINATES:	D M S
PTC MILE POST:	A-67.8	Latitude N	40.735472 40 44 7.7
COUNTY:	Lehigh	Longitude W	75.626389 75 37 35.0
MUNICIPALITY:	Washington Township		
TOWER TYPE:	Self-Support	Number of Sections:	9
HEIGHT:	180'	Future Extension:	No
MANUFACTURER:	Rohn	Top Width:	6.7'
YEAR BUILT:	Unknown	Base Width:	21.0'
FOUNDATION TYPE:	Unknown	Tower Lights:	No
OWNER:	ATC		
TENANTS:	PTC		
	Verizon		
	AT&T		
	T-Mobile		
FIELD INVESTIGATIONS:	Structure Mapping	N/A	
	Foundation Mapping	N/A	
	Geotechnical Report	N/A	
	Resistivity	N/A	
CONDITION INSPECTIONS:	TIA Annex J	N/A	
	Post-Modification	N/A	
STRUCTURAL ANALYSIS:	Date:	N/A	By:
	TIA-222 Revision:		
	Structure Class / Risk Category:	II	
	Exposure Category:		Basic Wind Speed:
	Topographic Category:		mph
	Crest Height:		Wind Speed with Ice:
	Ground Elevation:	788'	mph
			Design Ice Thickness:
			inch
MODIFICATIONS:	None		
CAPACITY RATING:	Legs:		
	Bracing:		
	Anchor Bolts:		
	Foundation:		
AVAILABLE RESERVE CAPACITY:			



SUMMARY OF PTC TOWER DATA

PTC SITE NAME:	Arona	PTC DISTRICT:	1
PSP SITE NAME/NUMBER:	N/A		
LOCATION:	New Stanton	COORDINATES:	D M S
PTC MILE POST:	T-70.8	Latitude N	40.255111 40 15 18.4
COUNTY:	Westmoreland	Longitude W	79.665056 79 39 54.2
MUNICIPALITY:	Hempfield Township		
TOWER TYPE:	Self-Support	Number of Sections:	10
HEIGHT:	177'	Future Extension:	No
MANUFACTURER:	PiRod	Top Width:	4.0'
YEAR BUILT:	1996	Base Width:	18.0'
FOUNDATION TYPE:	Drilled Piers	Tower Lights:	No
OWNER:	PTC		
TENANTS:	AT&T		
FIELD INVESTIGATIONS:	Structure Mapping	Apr-2017	By: RTS
	Foundation Mapping	N/A	
	Geotechnical Report	Sep-1996	By: PSI
	Resistivity	N/A	
CONDITION INSPECTIONS:	TIA Annex J	Apr-2017	By: RTS
	Post-Modification	N/A	
STRUCTURAL ANALYSIS:	Date:	9/3/20	By: Tectonic Engineering
	TIA-222 Revision:	H	
	Structure Class / Risk Category:	II	
	Exposure Category:	C	Basic Wind Speed: 110 mph
	Topographic Category:	1	Wind Speed with Ice: 40 mph
	Crest Height:	0'	Design Ice Thickness: 1.00 inch
	Ground Elevation:	1283'	
MODIFICATIONS:	None		
CAPACITY RATING:	Legs:	75%	
	Bracing:	60%	
	Anchor Bolts:	27%	
	Foundation:	71%	
AVAILABLE RESERVE CAPACITY:		<u>25%</u>	



SUMMARY OF PTC TOWER DATA

PTC SITE NAME:	Bald Knob	PTC DISTRICT:	2
PSP SITE NAME/NUMBER:	SOME02		
LOCATION:	Central City	COORDINATES:	D M S
PTC MILE POST:	T-128.5	Latitude N	40.039333 40 2 21.6
COUNTY:	Somerset	Longitude W	78.782611 78 46 57.4
MUNICIPALITY:	Shade Township		
TOWER TYPE:	Self-Support	Number of Sections:	9
HEIGHT:	180'	Future Extension:	No
MANUFACTURER:	Rohn	Top Width:	6.7'
YEAR BUILT:	1999	Base Width:	20.8'
FOUNDATION TYPE:	Drilled Piers	Tower Lights:	No
OWNER:	PTC		
TENANTS:	PSP		
FIELD INVESTIGATIONS:	Structure Mapping	Nov-2015	By: VSI
	Foundation Mapping	Jan-2016	By: VSI
	Geotechnical Report	N/A	
	Resistivity	N/A	
CONDITION INSPECTIONS:	TIA Annex J	Nov-2015	By: VSI
	Post-Modification	N/A	
STRUCTURAL ANALYSIS:	Date:	4/21/17	By: Tectonic Engineering
	TIA-222 Revision:	G	
	Structure Class / Risk Category:	III	
	Exposure Category:	C	Basic Wind Speed: 90 mph
	Topographic Category:	1	Wind Speed with Ice: 40 mph
	Crest Height:	0'	Design Ice Thickness: 0.75 inch
	Ground Elevation:	2911'	
MODIFICATIONS:	None		
CAPACITY RATING:	Legs:	79%	
	Bracing:	78%	
	Anchor Bolts:	51%	
	Foundation:	47%	
AVAILABLE RESERVE CAPACITY:		<u>21%</u>	



SUMMARY OF PTC TOWER DATA

PTC SITE NAME:	Beacon	PTC DISTRICT:	1
PSP SITE NAME/NUMBER:	WEST03		
LOCATION:	Trafford	COORDINATES:	D M S
PTC MILE POST:	T-61.4	Latitude N	40.384500 40 23 4.2
COUNTY:	Westmoreland	Longitude W	79.692833 79 41 34.2
MUNICIPALITY:	Penn Township		
TOWER TYPE:	Self-Support	Number of Sections:	16
HEIGHT:	330'	Future Extension:	No
MANUFACTURER:	Rohn	Top Width:	8.5'
YEAR BUILT:	1999	Base Width:	40.3'
FOUNDATION TYPE:	Drilled Piers	Tower Lights:	Yes
OWNER:	PTC		
TENANTS:	PSP Others		
FIELD INVESTIGATIONS:	Structure Mapping	Nov-2015	By: VSI
	Foundation Mapping	Oct-2015	By: VSI
	Geotechnical Report	Aug-1999	By: PSI
	Resistivity	N/A	
CONDITION INSPECTIONS:	TIA Annex J	Nov-2015	By: VSI
	Post-Modification	May-2018	By: DOG
STRUCTURAL ANALYSIS:	Date:	6/16/20	By: Tectonic Engineering
	TIA-222 Revision:	H	
	Structure Class / Risk Category:	III	
	Exposure Category:	C	Basic Wind Speed:
	Topographic Category:	1	117 mph
	Crest Height:	0'	Wind Speed with Ice:
	Ground Elevation:	1335'	40 mph
			Design Ice Thickness:
			1.00 inch
MODIFICATIONS:	Bracing	See drawings 4/14/17	
CAPACITY RATING:	Legs:	61%	
	Bracing:	82%	
	Anchor Bolts:	44%	
	Foundation:	62%	
AVAILABLE RESERVE CAPACITY:		18%	



SUMMARY OF PTC TOWER DATA

PTC SITE NAME:	Big Boulder (New)	PTC DISTRICT:	5
PSP SITE NAME/NUMBER:	CARB01		
LOCATION:	Lake Harmony	COORDINATES:	D M S
PTC MILE POST:	A-90.0	Latitude N	41.042889 41 2 34.4
COUNTY:	Carbon	Longitude W	75.603583 75 36 12.9
MUNICIPALITY:	Kidder Township		
TOWER TYPE:	Self-Support	Number of Sections:	17
HEIGHT:	330'	Future Extension:	No
MANUFACTURER:	Valmont	Top Width:	5.0'
YEAR BUILT:	2019	Base Width:	32.0'
FOUNDATION TYPE:	Drilled Piers	Tower Lights:	Yes
OWNER:	PTC		
TENANTS:	PSP		
	Sure Site		
	Carbon County		
FIELD INVESTIGATIONS:	Structure Mapping	N/A	
	Foundation Mapping	N/A	
	Geotechnical Report	Mar-2018	By: Tectonic Engineering
	Resistivity	Jan-2019	By: Tectonic Engineering
CONDITION INSPECTIONS:	TIA Annex J	N/A	
	Post-Construction	Mar-2020	By: Tectonic Engineering
STRUCTURAL ANALYSIS:	Date:	12/20/18	By: Tectonic Engineering
	TIA-222 Revision:	H	
	Structure Class / Risk Category:	III	
	Exposure Category:	C	Basic Wind Speed:
	Topographic Category:	3	120 mph
	Crest Height:	400'	Wind Speed with Ice:
	Ground Elevation:	2180'	40 mph
			Design Ice Thickness:
			1.00 inch
MODIFICATIONS:	None		
CAPACITY RATING:	Legs:	59%	
	Bracing:	51%	
	Anchor Bolts:	48%	
	Foundation:	70%	
AVAILABLE RESERVE CAPACITY:		30%	



SUMMARY OF PTC TOWER DATA

PTC SITE NAME:	Blue Mtn Tunnel	PTC DISTRICT:	2
PSP SITE NAME/NUMBER:	FRANxx		
LOCATION:	Roxbury	COORDINATES:	D M S
PTC MILE POST:	T-198.7	Latitude N	40.145833 40 8 45.0
COUNTY:	Franklin	Longitude W	77.652083 77 39 7.5
MUNICIPALITY:	Lurgan Township		
TOWER TYPE:	Self-Support	Number of Sections:	11
HEIGHT:	200'	Future Extension:	No
MANUFACTURER:	PiRod	Top Width:	5.0'
YEAR BUILT:	1999	Base Width:	20.0'
FOUNDATION TYPE:	Mat w/ piers	Tower Lights:	Yes
OWNER:	PTC		
TENANTS:	PSP		
	Franklin County		
FIELD INVESTIGATIONS:	Structure Mapping	Apr-2017	By: RTS
	Foundation Mapping	N/A	
	Geotechnical Report	N/A	
	Resistivity	N/A	
CONDITION INSPECTIONS:	TIA Annex J	Mar-2017	By: RTS
	Post-Modification	TBD	
STRUCTURAL ANALYSIS:	Date:	6/16/20	By: Tectonic Engineering
	TIA-222 Revision:	H	
	Structure Class / Risk Category:	III	
	Exposure Category:	C	Basic Wind Speed: 119 mph
	Topographic Category:	4	Wind Speed with Ice: 40 mph
	Crest Height:	875'	Design Ice Thickness: 1.00 inch
	Ground Elevation:	1776'	
MODIFICATIONS:	Pending legs, bracing, AB, fdn		See drawings 6/4/20
CAPACITY RATING:	Legs:	83%	
	Bracing:	81%	
	Anchor Bolts:	85%	
	Foundation:	84%	
AVAILABLE RESERVE CAPACITY:		15%	Once mods are installed



SUMMARY OF PTC TOWER DATA

PTC SITE NAME:	Blue Tunnel East	PTC DISTRICT:	2
PSP SITE NAME/NUMBER:	N/A		
LOCATION:	Roxbury	COORDINATES:	D M S
PTC MILE POST:	T-199.4	Latitude N	40.142000 40 8 31.2
COUNTY:	Franklin	Longitude W	77.644306 77 38 39.5
MUNICIPALITY:	Lurgan Township		
TOWER TYPE:	Monopole	Number of Sections:	4
HEIGHT:	189'	Future Extension:	No
MANUFACTURER:	Penn Summit	Top Width:	21"
YEAR BUILT:	2007	Base Width:	54"
FOUNDATION TYPE:	Drilled Pier	Tower Lights:	No
OWNER:	PTC		
TENANTS:	T-Mobile Verizon AT&T		
FIELD INVESTIGATIONS:	Structure Mapping	Apr-2017	By: RTS
	Foundation Mapping	N/A	
	Geotechnical Report	N/A	
	Resistivity	N/A	
CONDITION INSPECTIONS:	TIA Annex J	Apr-2017	By: RTS
	Post-Modification	N/A	
STRUCTURAL ANALYSIS:	Date:	4/25/19	By: Tectonic Engineering
	TIA-222 Revision:	H	
	Structure Class / Risk Category:	II	
	Exposure Category:	C	Basic Wind Speed: 111 mph
	Topographic Category:	1	Wind Speed with Ice: 40 mph
	Crest Height:	0'	Design Ice Thickness: 1.00 inch
	Ground Elevation:	1009'	
MODIFICATIONS:	None		
CAPACITY RATING:	Pole Shaft:	80%	
	Base Plate:	54%	
	Anchor Bolts:	59%	
	Foundation:	57%	
AVAILABLE RESERVE CAPACITY:		<u>20%</u>	



SUMMARY OF PTC TOWER DATA

PTC SITE NAME:	Bowmansville	PTC DISTRICT:	3
PSP SITE NAME/NUMBER:	N/A		
LOCATION:	Denver	COORDINATES:	D M S
PTC MILE POST:	T-288.3	Latitude N	40.210806 40 12 38.9
COUNTY:	Lancaster	Longitude W	76.041722 76 2 30.2
MUNICIPALITY:	Brecknock Township		
TOWER TYPE:	Self-Support	Number of Sections:	9
HEIGHT:	180'	Future Extension:	No
MANUFACTURER:	Rohn	Top Width:	6.1'
YEAR BUILT:	1995	Base Width:	20.7'
FOUNDATION TYPE:	Piers and Footings	Tower Lights:	No
OWNER:	AT&T		
TENANTS:	PTC		
FIELD INVESTIGATIONS:	Structure Mapping	Apr-2017	By: RTS
	Foundation Mapping		N/A
	Geotechnical Report	Feb-1995	By: F.T. Kitlinski & Assoc.
	Resistivity		N/A
CONDITION INSPECTIONS:	TIA Annex J	Apr-2017	By: RTS
	Post-Modification		N/A
STRUCTURAL ANALYSIS:	Date:	3/7/19	By: Tectonic Engineering
	TIA-222 Revision:	H	
	Structure Class / Risk Category:	III	
	Exposure Category:	C	Basic Wind Speed: 120 mph
	Topographic Category:	1	Wind Speed with Ice: 40 mph
	Crest Height:	0'	Design Ice Thickness: 1.00 inch
	Ground Elevation:	562'	
MODIFICATIONS:	None		
CAPACITY RATING:	Legs:	81%	
	Bracing:	63%	
	Anchor Bolts:	51%	
	Foundation:	67%	
AVAILABLE RESERVE CAPACITY:		<u>19%</u>	



SUMMARY OF PTC TOWER DATA

PTC SITE NAME:	Bunches	PTC DISTRICT:	3
PSP SITE NAME/NUMBER:	N/A		
LOCATION:	Reeser's Summit	COORDINATES:	D M S
PTC MILE POST:	T-242.9	Latitude N	40.191778 40 11 30.4
COUNTY:	Cumberland	Longitude W	76.866750 76 52 0.3
MUNICIPALITY:	Fairview Township		
TOWER TYPE:	Self-Support	Number of Sections:	13
HEIGHT:	260'	Future Extension:	No
MANUFACTURER:	Fibrebond	Top Width:	4.5'
YEAR BUILT:	1999	Base Width:	26.5'
FOUNDATION TYPE:	Drilled caisson piles	Tower Lights:	Yes
OWNER:	PTC		
TENANTS:	York County		
FIELD INVESTIGATIONS:	Structure Mapping	Dec-2015	By: VSI
	Foundation Mapping	Nov-2015	By: VSI
	Geotechnical Report	Aug-2017	By: Tectonic Engineering
	Resistivity	N/A	
CONDITION INSPECTIONS:	TIA Annex J	Nov-2015	By: VSI
	Post-Modification	May-2018	By: Tectonic Engineering
	"	Nov-2018	"
STRUCTURAL ANALYSIS:	Date:	6/1/17	By: Tectonic Engineering
	TIA-222 Revision:	G	
	Structure Class / Risk Category:	III	
	Exposure Category:	C	Basic Wind Speed: 90 mph
	Topographic Category:	3	Wind Speed with Ice: 40 mph
	Crest Height:	430'	Design Ice Thickness: 0.75 inch
	Ground Elevation:	1045'	
MODIFICATIONS:	Legs, bracing, fdn	See drawings 6/1/17 & 8/15/17	
CAPACITY RATING:	Legs:	85%	
	Bracing:	78%	
	Anchor Bolts:	81%	
	Foundation:	79%	Per 8/15/17 report
AVAILABLE RESERVE CAPACITY:		<u>15%</u>	



SUMMARY OF PTC TOWER DATA

PTC SITE NAME:	Burnt Cabins	PTC DISTRICT:	2
PSP SITE NAME/NUMBER:	N/A		
LOCATION:	Shade Gap	COORDINATES:	D M S
PTC MILE POST:	T-186.0	Latitude N	40.090944 40 5 27.4
COUNTY:	Huntingdon	Longitude W	77.858694 77 51 31.3
MUNICIPALITY:	Shade Gap		
TOWER TYPE:	Self-Support	Number of Sections:	1
HEIGHT:	20'	Future Extension:	No
MANUFACTURER:	Rohn	Top Width:	8.7'
YEAR BUILT:	1999	Base Width:	10.8'
FOUNDATION TYPE:	Mat w/ piers	Tower Lights:	No
OWNER:	PTC		
TENANTS:	None		
FIELD INVESTIGATIONS:	Structure Mapping	Oct-2015	By: VSI
	Foundation Mapping	Jan-2016	By: VSI
	Geotechnical Report	N/A	
	Resistivity	N/A	
CONDITION INSPECTIONS:	TIA Annex J	Nov-2015	By: VSI
	Post-Modification	N/A	
STRUCTURAL ANALYSIS:	Date:	2/16/16	By: Tectonic Engineering
	TIA-222 Revision:	G	
	Structure Class / Risk Category:	III	
	Exposure Category:	C	Basic Wind Speed: 90 mph
	Topographic Category:	1	Wind Speed with Ice: 40 mph
	Crest Height:	0'	Design Ice Thickness: 0.75 inch
	Ground Elevation:	987'	
MODIFICATIONS:	None		
CAPACITY RATING:	Legs:	3%	
	Bracing:	13%	
	Anchor Bolts:	3%	
	Foundation:	22%	
AVAILABLE RESERVE CAPACITY:		78%	



SUMMARY OF PTC TOWER DATA

PTC SITE NAME:	Camiel SP	PTC DISTRICT:	4
PSP SITE NAME/NUMBER:	N/A		
LOCATION:	Glenmoore	COORDINATES:	D M S
PTC MILE POST:	T-304.9	Latitude N	40.121556 40 7 17.6
COUNTY:	Chester	Longitude W	75.773694 75 46 25.3
MUNICIPALITY:	Wallace Township		
TOWER TYPE:	Monopole	Number of Sections:	5
HEIGHT:	190'	Future Extension:	No
MANUFACTURER:	Penn Summit	Top Width:	22"
YEAR BUILT:	2006	Base Width:	65"
FOUNDATION TYPE:	Drilled Pier	Tower Lights:	No
OWNER:	PTC		
TENANTS:	T-Mobile		
FIELD INVESTIGATIONS:	Structure Mapping	Mar-2017	By: RTS
	Foundation Mapping	Mar-2017	By: DOG
	Geotechnical Report	Jan-2006	By: URS
	Resistivity	N/A	
CONDITION INSPECTIONS:	TIA Annex J	Mar-2017	By: RTS
	Post-Modification	N/A	
STRUCTURAL ANALYSIS:	Date:	2/14/19	By: Tectonic Engineering
	TIA-222 Revision:	H	
	Structure Class / Risk Category:	II	
	Exposure Category:	C	Basic Wind Speed: 114 mph
	Topographic Category:	1	Wind Speed with Ice: 40 mph
	Crest Height:	0'	Design Ice Thickness: 1.00 inch
	Ground Elevation:	536'	
MODIFICATIONS:	None		
CAPACITY RATING:	Pole Shaft:	37%	
	Base Plate:	36%	
	Anchor Bolts:	39%	
	Foundation:	44%	
AVAILABLE RESERVE CAPACITY:		56%	



SUMMARY OF PTC TOWER DATA

PTC SITE NAME:	Clark's Knob	PTC DISTRICT:	2		
PSP SITE NAME/NUMBER:	FRAN01				
LOCATION:	Upper Strasburg	COORDINATES:	D	M	S
PTC MILE POST:	T-189.0	Latitude N	40.050083	40	3 0.3
COUNTY:	Franklin	Longitude W	77.747528	77	44 51.1
MUNICIPALITY:	Letterkenny Township				
TOWER TYPE:	Self-Support	Number of Sections:	9		
HEIGHT:	180'	Future Extension:	No		
MANUFACTURER:	Rohn	Top Width:	6.7'		
YEAR BUILT:	1999	Base Width:	20.8'		
FOUNDATION TYPE:	Mat w/ piers	Tower Lights:	No		
OWNER:	PTC				
TENANTS:	PSP				
FIELD INVESTIGATIONS:	Structure Mapping	Nov-2015	By:	VSI	
	Foundation Mapping	Feb-2016	By:	VSI	
	Geotechnical Report	N/A			
	Resistivity	N/A			
CONDITION INSPECTIONS:	TIA Annex J	Nov-2015	By:	VSI	
	Post-Modification	TBD			
STRUCTURAL ANALYSIS:	Date:	8/10/20	By:	Tectonic Engineering	
	TIA-222 Revision:	H			
	Structure Class / Risk Category:	III			
	Exposure Category:	C	Basic Wind Speed:	119 mph	
	Topographic Category:	5	Wind Speed with Ice:	40 mph	
	Crest Height:	1490'	Design Ice Thickness:	1.00 inch	
	Ground Elevation:	2327'			
MODIFICATIONS:	Pending legs, bracing, AB, fdn		See drawings	7/17/20	
CAPACITY RATING:	Legs:	82%			
	Bracing:	80%			
	Anchor Bolts:	82%			
	Foundation:	78%			
AVAILABLE RESERVE CAPACITY:		18%	Once mods are installed		



SUMMARY OF PTC TOWER DATA

PTC SITE NAME:	Conestoga	PTC DISTRICT:	3
PSP SITE NAME/NUMBER:	CHES01		
LOCATION:	Elverson	COORDINATES:	D M S
PTC MILE POST:	T-299.9	Latitude N	40.133861 40 8 1.9
COUNTY:	Chester	Longitude W	75.866194 75 51 58.3
MUNICIPALITY:	Honey Brook Township		
TOWER TYPE:	Self-Support	Number of Sections:	10
HEIGHT:	180'	Future Extension:	No
MANUFACTURER:	PiRod	Top Width:	5.0'
YEAR BUILT:	1999	Base Width:	20.0'
FOUNDATION TYPE:	Mat w/ piers	Tower Lights:	Yes
OWNER:	PTC		
TENANTS:	PSP		
FIELD INVESTIGATIONS:	Structure Mapping	Nov-2015	By: VSI
	Foundation Mapping	Nov-2015	By: VSI
	Geotechnical Report	N/A	
	Resistivity	N/A	
CONDITION INSPECTIONS:	TIA Annex J	Nov-2015	By: VSI
	Post-Modification	Oct-2017	By: Tectonic Engineering
STRUCTURAL ANALYSIS:	Date:	4/6/16	By: Tectonic Engineering
	TIA-222 Revision:	G	
	Structure Class / Risk Category:	III	
	Exposure Category:	C	Basic Wind Speed: 90 mph
	Topographic Category:	4	Wind Speed with Ice: 40 mph
	Crest Height:	450'	Design Ice Thickness: 1.00 inch
	Ground Elevation:	1052'	
MODIFICATIONS:	Legs, bracing	See drawings 4/6/16	
CAPACITY RATING:	Legs:	89%	
	Bracing:	87%	
	Anchor Bolts:	80%	
	Foundation:	77%	
AVAILABLE RESERVE CAPACITY:		<u>11%</u>	



SUMMARY OF PTC TOWER DATA

PTC SITE NAME:	Cornwall	PTC DISTRICT:	3
PSP SITE NAME/NUMBER:	LANC01		
LOCATION:	Lititz	COORDINATES:	D M S
PTC MILE POST:	T-270.1	Latitude N	40.241194 40 14 28.3
COUNTY:	Lancaster	Longitude W	76.371417 76 22 17.1
MUNICIPALITY:	Penn Township		
TOWER TYPE:	Self-Support	Number of Sections:	11
HEIGHT:	200'	Future Extension:	No
MANUFACTURER:	PiRod	Top Width:	5.0'
YEAR BUILT:	1999	Base Width:	20.0'
FOUNDATION TYPE:	Mat w/ piers	Tower Lights:	Yes
OWNER:	PTC		
TENANTS:	PSP		
	Franklin County		
FIELD INVESTIGATIONS:	Structure Mapping	Nov-2015	By: VSI
	Foundation Mapping	Nov-2015	By: VSI
	Geotechnical Report	Apr-2020	By: Tectonic Engineering
	Resistivity	Dec-2018	By: Tectonic Engineering
CONDITION INSPECTIONS:	TIA Annex J	Nov-2015	By: VSI
	Post-Modification	TBD	
STRUCTURAL ANALYSIS:	Date:	6/30/20	By: Tectonic Engineering
	TIA-222 Revision:	H	
	Structure Class / Risk Category:	III	
	Exposure Category:	C	Basic Wind Speed: 120 mph
	Topographic Category:	4	Wind Speed with Ice: 40 mph
	Crest Height:	340'	Design Ice Thickness: 1.00 inch
	Ground Elevation:	1177'	
MODIFICATIONS:	Pending legs, bracing, fdn	See drawings 6/30/20	
CAPACITY RATING:	Legs:	83%	
	Bracing:	76%	
	Anchor Bolts:	48%	
	Foundation:	82%	
AVAILABLE RESERVE CAPACITY:		17%	Once mods are installed



SUMMARY OF PTC TOWER DATA

PTC SITE NAME:	Cornwall (Old)	PTC DISTRICT:	3			
PSP SITE NAME/NUMBER:	N/A					
LOCATION:	Lititz	COORDINATES:		D	M	S
PTC MILE POST:	T-270.1	Latitude N	40.241056	40	14	27.8
COUNTY:	Lancaster	Longitude W	76.371472	76	22	17.3
MUNICIPALITY:	Penn Township					
TOWER TYPE:	Self-Support	Number of Sections:		7		
HEIGHT:	133'	Future Extension:		No		
MANUFACTURER:	Rohn	Top Width:		6.7'		
YEAR BUILT:	Unknown	Base Width:		14.8'		
FOUNDATION TYPE:	Drilled piers	Tower Lights:		No		
OWNER:	PTC					
TENANTS:	Various					
FIELD INVESTIGATIONS:	Structure Mapping	Apr-2017	By: RTS			
	Foundation Mapping	Mar-2017	By: DOG			
	Geotechnical Report	Apr-2020	By: Tectonic Engineering			
	Resistivity	N/A				
CONDITION INSPECTIONS:	TIA Annex J	Apr-2017	By: RTS			
	Post-Modification	N/A				
STRUCTURAL ANALYSIS:	Date:	8/14/19	By: Tectonic Engineering			
	TIA-222 Revision:	H				
	Structure Class / Risk Category:	II				
	Exposure Category:	C	Basic Wind Speed:	113 mph		
	Topographic Category:	4	Wind Speed with Ice:	40 mph		
	Crest Height:	340'	Design Ice Thickness:	1.00 inch		
	Ground Elevation:	1177'				
MODIFICATIONS:	None		Risk Category III			
			Basic Wind Speed:	120 mph		
CAPACITY RATING:	Legs:	173%		193%		
	Bracing:	96%		108%		
	Anchor Bolts:	106%		134%		
	Foundation:	59%		67%		
AVAILABLE RESERVE CAPACITY:		-73%		-93%		



SUMMARY OF PTC TOWER DATA

PTC SITE NAME:	Crown Castle	PTC DISTRICT:	1
PSP SITE NAME/NUMBER:	N/A		
LOCATION:	Jones Mills	COORDINATES:	D M S
PTC MILE POST:	T-91.6	Latitude N	40.108000 40 6 28.8
COUNTY:	Westmoreland	Longitude W	79.364444 79 21 52.0
MUNICIPALITY:	Donegal Township		
TOWER TYPE:	Self-Support	Number of Sections:	15
HEIGHT:	300'	Future Extension:	No
MANUFACTURER:	FWT	Top Width:	4.0'
YEAR BUILT:	1996	Base Width:	32.0'
FOUNDATION TYPE:	Drilled Piers	Tower Lights:	Yes
OWNER:	Crown Castle		
TENANTS:	PTC Verizon Westmoreland County Others		
FIELD INVESTIGATIONS:	Structure Mapping	N/A	
	Foundation Mapping	N/A	
	Geotechnical Report	Aug-1996	By: PSI
	Resistivity	N/A	
CONDITION INSPECTIONS:	TIA Annex J	N/A	
	Post-Modification	N/A	
STRUCTURAL ANALYSIS:	Date:	10/3/16	By: Jacobs
	TIA-222 Revision:	G	
	Structure Class / Risk Category:	II	
	Exposure Category:	C	Basic Wind Speed:
	Topographic Category:	1	90 mph
	Crest Height:	0'	Wind Speed with Ice:
	Ground Elevation:	1942'	40 mph
			Design Ice Thickness:
			0.75 inch
MODIFICATIONS:	None		
CAPACITY RATING:	Legs:	52%	
	Bracing:	64%	
	Anchor Bolts:	54%	
	Foundation:	27%	
AVAILABLE RESERVE CAPACITY:		36%	



SUMMARY OF PTC TOWER DATA

PTC SITE NAME:	Delaware Valley	PTC DISTRICT:	4
PSP SITE NAME/NUMBER:	N/A		
LOCATION:	Bristol	COORDINATES:	D M S
PTC MILE POST:	H-42.2	Latitude N	40.121833 40 7 18.6
COUNTY:	Bucks	Longitude W	74.851639 74 51 5.9
MUNICIPALITY:	Bristol Township		
TOWER TYPE:	Self-Support	Number of Sections:	7
HEIGHT:	120'	Future Extension:	No
MANUFACTURER:	PiRod	Top Width:	5.0'
YEAR BUILT:	2000	Base Width:	12.0'
FOUNDATION TYPE:	Mat w/ piers	Tower Lights:	No
OWNER:	PTC		
TENANTS:	None		
FIELD INVESTIGATIONS:	Structure Mapping	Mar-2017	By: RTS
	Foundation Mapping		N/A
	Geotechnical Report	Nov-1999	By: PSI
	Resistivity		N/A
CONDITION INSPECTIONS:	TIA Annex J	Mar-2017	By: RTS
	Post-Modification		N/A
STRUCTURAL ANALYSIS:	Date:	6/12/17	By: Tectonic Engineering
	TIA-222 Revision:	G	
	Structure Class / Risk Category:	III	
	Exposure Category:	C	Basic Wind Speed: 95 mph
	Topographic Category:	1	Wind Speed with Ice: 40 mph
	Crest Height:	0'	Design Ice Thickness: 1.00 inch
	Ground Elevation:	39'	
MODIFICATIONS:	None		
CAPACITY RATING:	Legs:	49%	
	Bracing:	57%	
	Anchor Bolts:	24%	
	Foundation:	51%	
AVAILABLE RESERVE CAPACITY:		43%	



SUMMARY OF PTC TOWER DATA

PTC SITE NAME:	Donegal	PTC DISTRICT:	1
PSP SITE NAME/NUMBER:	N/A		
LOCATION:	Acme	COORDINATES:	D M S
PTC MILE POST:	T-88.8	Latitude N	40.128083 40 7 41.1
COUNTY:	Westmoreland	Longitude W	79.405194 79 24 18.7
MUNICIPALITY:	Mount Pleasant Township		
TOWER TYPE:	Self-Support	Number of Sections:	7
HEIGHT:	140'	Future Extension:	Yes
MANUFACTURER:	Rohn	Top Width:	6.8'
YEAR BUILT:	2000	Base Width:	21.0'
FOUNDATION TYPE:	Mat at grade	Tower Lights:	No
OWNER:	PTC		
TENANTS:	None		
FIELD INVESTIGATIONS:	Structure Mapping	Apr-2017	By: RTS
	Foundation Mapping	N/A	
	Geotechnical Report	N/A	
	Resistivity	N/A	
CONDITION INSPECTIONS:	TIA Annex J	Apr-2017	By: RTS
	Post-Modification	N/A	
STRUCTURAL ANALYSIS:	Date:	6/25/20	By: Tectonic Engineering
	TIA-222 Revision:	H	
	Structure Class / Risk Category:	III	
	Exposure Category:	C	Basic Wind Speed: 117 mph
	Topographic Category:	1	Wind Speed with Ice: 40 mph
	Crest Height:	0'	Design Ice Thickness: 1.00 inch
	Ground Elevation:	1807'	
MODIFICATIONS:	None		
CAPACITY RATING:	Legs:	23%	
	Bracing:	44%	
	Anchor Bolts:	18%	
	Foundation:	29%	
AVAILABLE RESERVE CAPACITY:		56%	



SUMMARY OF PTC TOWER DATA

PTC SITE NAME:	Everett	PTC DISTRICT:	2
PSP SITE NAME/NUMBER:	N/A		
LOCATION:	Everett	COORDINATES:	D M S
PTC MILE POST:	T-154.3	Latitude N	40.005361 40 0 19.3
COUNTY:	Bedford	Longitude W	78.383806 78 23 1.7
MUNICIPALITY:	West Providence Township		
TOWER TYPE:	Monopole	Number of Sections:	3
HEIGHT:	100'	Future Extension:	No
MANUFACTURER:	Rohn	Top Width:	24"
YEAR BUILT:	2000	Base Width:	30"
FOUNDATION TYPE:	Mat at grade	Tower Lights:	No
OWNER:	PTC		
TENANTS:	None		
FIELD INVESTIGATIONS:	Structure Mapping	Nov-2015	By: VSI
	Foundation Mapping	Nov-2015	By: VSI
	Geotechnical Report	N/A	
	Resistivity	N/A	
CONDITION INSPECTIONS:	TIA Annex J	Nov-2015	By: VSI
	Post-Modification	N/A	
STRUCTURAL ANALYSIS:	Date:	6/28/16	By: Tectonic Engineering
	TIA-222 Revision:	G	
	Structure Class / Risk Category:	III	
	Exposure Category:	C	Basic Wind Speed:
	Topographic Category:	1	90 mph
	Crest Height:	0'	Wind Speed with Ice:
	Ground Elevation:	1052'	40 mph
			Design Ice Thickness:
			0.75 inch
MODIFICATIONS:	None		
CAPACITY RATING:	Pole Shaft:	33%	
	Base Plate:	27%	
	Anchor Bolts:	31%	
	Foundation:	32%	
AVAILABLE RESERVE CAPACITY:		67%	



SUMMARY OF PTC TOWER DATA

PTC SITE NAME:	Gettysburg IC	PTC DISTRICT:	3
PSP SITE NAME/NUMBER:	N/A		
LOCATION:	Mechanicsburg	COORDINATES:	D M S
PTC MILE POST:	T-236.2	Latitude N	40.196861 40 11 48.7
COUNTY:	Cumberland	Longitude W	76.975750 76 58 32.7
MUNICIPALITY:	Upper Allen Township		
TOWER TYPE:	Monopole	Number of Sections:	4
HEIGHT:	189'	Future Extension:	No
MANUFACTURER:	Penn Summit	Top Width:	24"
YEAR BUILT:	2008	Base Width:	60"
FOUNDATION TYPE:	Footing and Pier	Tower Lights:	No
OWNER:	PTC		
TENANTS:	T-Mobile		
FIELD INVESTIGATIONS:	Structure Mapping	Mar-2017 By: RTS	
	Foundation Mapping	Mar-2017 By: DOG	
	Geotechnical Report	Apr-2018 By: Tectonic Engineering	
	Resistivity	Aug-2019 By: Tectonic Engineering	
CONDITION INSPECTIONS:	TIA Annex J	Mar-2017 By: RTS	
	Post-Modification	N/A	
STRUCTURAL ANALYSIS:	Date:	6/11/19	By: Tectonic Engineering
	TIA-222 Revision:	H	
	Structure Class / Risk Category:	III	
	Exposure Category:	C	Basic Wind Speed: 120 mph
	Topographic Category:	1	Wind Speed with Ice: 40 mph
	Crest Height:	0'	Design Ice Thickness: 1.00 inch
	Ground Elevation:	440'	
MODIFICATIONS:	None		
CAPACITY RATING:	Pole Shaft:	54%	
	Base Plate:	47%	
	Anchor Bolts:	53%	
	Foundation:	48%	
AVAILABLE RESERVE CAPACITY:		<u>46%</u>	



SUMMARY OF PTC TOWER DATA

PTC SITE NAME:	Gibsonia	PTC DISTRICT:	1
PSP SITE NAME/NUMBER:	N/A		
LOCATION:	Gibsonia	COORDINATES:	D M S
PTC MILE POST:	T-39.6	Latitude N	40.605944 40 36 21.4
COUNTY:	Allegheny	Longitude W	79.938333 79 56 18.0
MUNICIPALITY:	Hampton Township		
TOWER TYPE:	Monopole	Number of Sections:	4
HEIGHT:	170'	Future Extension:	No
MANUFACTURER:	Rohn	Top Width:	28"
YEAR BUILT:	2002	Base Width:	72"
FOUNDATION TYPE:	Drilled Pier	Tower Lights:	No
OWNER:	PTC		
TENANTS:	AT&T Verizon T-Mobile		
FIELD INVESTIGATIONS:	Structure Mapping Foundation Mapping Geotechnical Report Resistivity	Mar-2017 N/A Jan-2002 N/A	By: RTS By: Froehling & Robertson
CONDITION INSPECTIONS:	TIA Annex J Post-Modification	Mar-2017 N/A	By: RTS
STRUCTURAL ANALYSIS:	Date: TIA-222 Revision: Structure Class / Risk Category: Exposure Category: Topographic Category: Crest Height: Ground Elevation:	6/1/17 G III C 1 0' 1121'	By: Tectonic Engineering Basic Wind Speed: 90 mph Wind Speed with Ice: 40 mph Design Ice Thickness: 0.75 inch
MODIFICATIONS:	None		
CAPACITY RATING:	Pole Shaft: Base Plate: Anchor Bolts: Foundation:	67% 65% 84% 59%	
AVAILABLE RESERVE CAPACITY:		<u>16%</u>	



SUMMARY OF PTC TOWER DATA

PTC SITE NAME:	Gun Club Road	PTC DISTRICT:	1
PSP SITE NAME/NUMBER:	N/A		
LOCATION:	Charleroi	COORDINATES:	D M S
PTC MILE POST:	M-36.2	Latitude N	40.118500 40 7 6.6
COUNTY:	Washington	Longitude W	79.923917 79 55 26.1
MUNICIPALITY:	Fallowfield Township		
TOWER TYPE:	Self-Support	Number of Sections:	10
HEIGHT:	196'	Future Extension:	No
MANUFACTURER:	Rohn	Top Width:	6.7'
YEAR BUILT:	1998	Base Width:	22.8'
FOUNDATION TYPE:	Drilled Piers	Tower Lights:	No
OWNER:	PTC		
TENANTS:	None		
FIELD INVESTIGATIONS:	Structure Mapping	Apr-2017	By: RTS
	Foundation Mapping	N/A	
	Geotechnical Report	N/A	
	Resistivity	N/A	
CONDITION INSPECTIONS:	TIA Annex J	Apr-2017	By: RTS
	Post-Modification	N/A	
STRUCTURAL ANALYSIS:	Date:	6/18/20	By: Tectonic Engineering
	TIA-222 Revision:	H	
	Structure Class / Risk Category:	III	
	Exposure Category:	C	Basic Wind Speed: 116 mph
	Topographic Category:	1	Wind Speed with Ice: 40 mph
	Crest Height:	0'	Design Ice Thickness: 1.00 inch
	Ground Elevation:	1276'	
MODIFICATIONS:	None		
CAPACITY RATING:	Legs:	70%	
	Bracing:	58%	
	Anchor Bolts:	40%	
	Foundation:	39%	
AVAILABLE RESERVE CAPACITY:		30%	



SUMMARY OF PTC TOWER DATA

PTC SITE NAME:	Hampton Road	PTC DISTRICT:	1			
PSP SITE NAME/NUMBER:	ALLE25					
LOCATION:	West Mifflin	COORDINATES:		D	M	S
PTC MILE POST:	M-58.3	Latitude N	40.329194	40	19	45.1
COUNTY:	Allegheny	Longitude W	79.930194	79	55	48.7
MUNICIPALITY:	West Mifflin					
TOWER TYPE:	Self-Support	Number of Sections:		7		
HEIGHT:	130'	Future Extension:		No		
MANUFACTURER:	PiRod	Top Width:		5.0'		
YEAR BUILT:	1999	Base Width:		14.0'		
FOUNDATION TYPE:	Drilled Piers	Tower Lights:		No		
OWNER:	PTC					
TENANTS:	PSP					
FIELD INVESTIGATIONS:	Structure Mapping	Mar-2017	By: RTS			
	Foundation Mapping		N/A			
	Geotechnical Report		N/A			
	Resistivity		N/A			
CONDITION INSPECTIONS:	TIA Annex J	Mar-2017	By: RTS			
	Post-Modification		N/A			
STRUCTURAL ANALYSIS:	Date:	5/3/17	By: Tectonic Engineering			
	TIA-222 Revision:	G				
	Structure Class / Risk Category:	III				
	Exposure Category:	C	Basic Wind Speed:	90 mph		
	Topographic Category:	1	Wind Speed with Ice:	40 mph		
	Crest Height:	0'	Design Ice Thickness:	0.75 inch		
	Ground Elevation:	1260'				
MODIFICATIONS:	None					
CAPACITY RATING:	Legs:	71%				
	Bracing:	71%				
	Anchor Bolts:	42%				
	Foundation:	36%				
AVAILABLE RESERVE CAPACITY:		29%				



SUMMARY OF PTC TOWER DATA

PTC SITE NAME:	Harrison City	PTC DISTRICT:	1
PSP SITE NAME/NUMBER:	N/A		
LOCATION:	Harrison City	COORDINATES:	D M S
PTC MILE POST:	T-63.3	Latitude N	40.364778 40 21 53.2
COUNTY:	Westmoreland	Longitude W	79.678278 79 40 41.8
MUNICIPALITY:	Penn Township		
TOWER TYPE:	Self-Support	Number of Sections:	8
HEIGHT:	180'	Future Extension:	Yes
MANUFACTURER:	Rohn	Top Width:	8.8'
YEAR BUILT:	2000	Base Width:	27.7'
FOUNDATION TYPE:	Drilled Piers	Tower Lights:	No
OWNER:	PTC		
TENANTS:	AT&T		
FIELD INVESTIGATIONS:	Structure Mapping	Apr-2017	By: RTS
	Foundation Mapping	N/A	
	Geotechnical Report	N/A	
	Resistivity	N/A	
CONDITION INSPECTIONS:	TIA Annex J	Apr-2017	By: RTS
	Post-Modification	N/A	
STRUCTURAL ANALYSIS:	Date:	5/22/20	By: Tectonic Engineering
	TIA-222 Revision:	H	
	Structure Class / Risk Category:	III	
	Exposure Category:	C	Basic Wind Speed:
	Topographic Category:	1	Wind Speed with Ice:
	Crest Height:	0'	Design Ice Thickness:
	Ground Elevation:	1162'	1.00 inch
MODIFICATIONS:	None		
CAPACITY RATING:	Legs:	38%	
	Bracing:	74%	
	Anchor Bolts:	35%	
	Foundation:	53%	
AVAILABLE RESERVE CAPACITY:		26%	



SUMMARY OF PTC TOWER DATA

PTC SITE NAME:	Highspire SP	PTC DISTRICT:	3
PSP SITE NAME/NUMBER:	N/A		
LOCATION:	Middletown	COORDINATES:	D M S
PTC MILE POST:	T-249.8	Latitude N	40.209694 40 12 34.9
COUNTY:	Dauphin	Longitude W	76.740889 76 44 27.2
MUNICIPALITY:	Lower Swatara Township		
TOWER TYPE:	Monopole	Number of Sections:	4
HEIGHT:	160'	Future Extension:	No
MANUFACTURER:	PennSummit	Top Width:	20"
YEAR BUILT:	2006	Base Width:	45"
FOUNDATION TYPE:	Drilled Pier	Tower Lights:	Yes
OWNER:	PTC		
TENANTS:	T-Mobile Verizon Clearwire		
FIELD INVESTIGATIONS:	Structure Mapping	Mar-2017	By: RTS
	Foundation Mapping	Mar-2017	By: DOG
	Geotechnical Report	May-2018	By: Tectonic Engineering
	Resistivity	Aug-2019	By: Tectonic Engineering
CONDITION INSPECTIONS:	TIA Annex J	Mar-2017	By: RTS
	Post-Modification	N/A	
STRUCTURAL ANALYSIS:	Date:	7/8/20	By: Tectonic Engineering
	TIA-222 Revision:	H	
	Structure Class / Risk Category:	II	
	Exposure Category:	C	Basic Wind Speed: 112 mph
	Topographic Category:	1	Wind Speed with Ice: 40 mph
	Crest Height:	0'	Design Ice Thickness: 1.00 inch
	Ground Elevation:	399'	
MODIFICATIONS:	None		
CAPACITY RATING:	Pole Shaft:	65%	
	Base Plate:	48%	
	Anchor Bolts:	53%	
	Foundation:	* Further investigation required	
AVAILABLE RESERVE CAPACITY:		<u>35%</u>	



SUMMARY OF PTC TOWER DATA

PTC SITE NAME:	Homewood	PTC DISTRICT:	1
PSP SITE NAME/NUMBER:	N/A		
LOCATION:	Big Beaver	COORDINATES:	D M S
PTC MILE POST:	T-11.9	Latitude N	40.819694 40 49 10.9
COUNTY:	Beaver	Longitude W	80.341306 80 20 28.7
MUNICIPALITY:	Big Beaver		
TOWER TYPE:	Monopole	Number of Sections:	2
HEIGHT:	40'	Future Extension:	No
MANUFACTURER:	Valmont-Microfect	Top Width:	13"
YEAR BUILT:	2000	Base Width:	13"
FOUNDATION TYPE:	Drilled Pier	Tower Lights:	No
OWNER:	PTC		
TENANTS:	None		
FIELD INVESTIGATIONS:	Structure Mapping	Apr-2017	By: RTS
	Foundation Mapping	Mar-2017	By: DOG
	Geotechnical Report	Jun-2018	By: Tectonic Engineering
	Resistivity	Pending	
CONDITION INSPECTIONS:	TIA Annex J	Apr-2017	By: RTS
	Post-Modification	N/A	
STRUCTURAL ANALYSIS:	Date:	3/11/20	By: Tectonic Engineering
	TIA-222 Revision:	H	
	Structure Class / Risk Category:	III	
	Exposure Category:	C	Basic Wind Speed: 116 mph
	Topographic Category:	1	Wind Speed with Ice: 40 mph
	Crest Height:	0'	Design Ice Thickness: 1.00 inch
	Ground Elevation:	1009'	
MODIFICATIONS:	None		
CAPACITY RATING:	Pole Shaft:	29%	
	Base Plate:	35%	
	Anchor Bolts:	45%	
	Foundation:	23%	
AVAILABLE RESERVE CAPACITY:		55%	



SUMMARY OF PTC TOWER DATA

PTC SITE NAME:	Irwin IC	PTC DISTRICT:	1		
PSP SITE NAME/NUMBER:	N/A				
LOCATION:	Irwin	COORDINATES:	D	M	S
PTC MILE POST:	T-67.1	Latitude N	40.314444	40	18 52.0
COUNTY:	Westmoreland	Longitude W	79.679361	79	40 45.7
MUNICIPALITY:	North Huntingdon Township				
TOWER TYPE:	Monopole	Number of Sections:	4		
HEIGHT:	190'	Future Extension:	No		
MANUFACTURER:	TransAmerican	Top Width:	22"		
YEAR BUILT:	2007	Base Width:	55"		
FOUNDATION TYPE:	Drilled Pier	Tower Lights:	No		
OWNER:	PTC				
TENANTS:	T-Mobile				
FIELD INVESTIGATIONS:	Structure Mapping	Apr-2017	By:	RTS	
	Foundation Mapping	Mar-2017	By:	DOG	
	Geotechnical Report	Jul-2018	By:	Tectonic Engineering	
	Resistivity	Pending			
CONDITION INSPECTIONS:	TIA Annex J	Apr-2017	By:	RTS	
	Post-Modification	N/A			
STRUCTURAL ANALYSIS:	Date:	7/31/20	By:	Tectonic Engineering	
	TIA-222 Revision:	H			
	Structure Class / Risk Category:	II			
	Exposure Category:	C	Basic Wind Speed:	110 mph	
	Topographic Category:	1	Wind Speed with Ice:	40 mph	
	Crest Height:	0'	Design Ice Thickness:	1.00 inch	
	Ground Elevation:	1069'			
MODIFICATIONS:	None		Risk Category III		
			Basic Wind Speed:	117 mph	
CAPACITY RATING:	Pole Shaft:	53%		61%	
	Base Plate:	37%		N/A	
	Anchor Bolts:	57%		N/A	
	Foundation:	38%		N/A	
AVAILABLE RESERVE CAPACITY:		<u>43%</u>		<u>N/A</u>	



SUMMARY OF PTC TOWER DATA

PTC SITE NAME:	Laurel	PTC DISTRICT:	2
PSP SITE NAME/NUMBER:	N/A		
LOCATION:	Somerset	COORDINATES:	D M S
PTC MILE POST:	T-99.4	Latitude N	40.099611 40 5 58.6
COUNTY:	Somerset	Longitude W	79.226083 79 13 33.9
MUNICIPALITY:	Cook Township		
TOWER TYPE:	Self-Support	Number of Sections:	13
HEIGHT:	260'	Future Extension:	No
MANUFACTURER:	Rohn	Top Width:	8.5'
YEAR BUILT:	1999	Base Width:	36.5'
FOUNDATION TYPE:	Piers and Footings	Tower Lights:	Yes
OWNER:	PTC		
TENANTS:	None		
FIELD INVESTIGATIONS:	Structure Mapping	Nov-2015	By: VSI
	Foundation Mapping	Dec-2015	By: VSI
	Geotechnical Report	N/A	
	Resistivity	N/A	
CONDITION INSPECTIONS:	TIA Annex J	Nov-2015	By: VSI
	Post-Modification	N/A	
STRUCTURAL ANALYSIS:	Date:	4/18/17	By: Tectonic Engineering
	TIA-222 Revision:	G	
	Structure Class / Risk Category:	III	
	Exposure Category:	C	Basic Wind Speed: 90 mph
	Topographic Category:	1	Wind Speed with Ice: 40 mph
	Crest Height:	0'	Design Ice Thickness: 0.75 inch
	Ground Elevation:	2797'	
MODIFICATIONS:	None		
CAPACITY RATING:	Legs:	50%	
	Bracing:	60%	
	Anchor Bolts:	42%	
	Foundation:	50%	
AVAILABLE RESERVE CAPACITY:		40%	



SUMMARY OF PTC TOWER DATA

PTC SITE NAME:	MFE North Barrier	PTC DISTRICT:	1
PSP SITE NAME/NUMBER:	N/A		
LOCATION:	Jefferson Hills	COORDINATES:	D M S
PTC MILE POST:	M-52.1	Latitude N	40.281500 40 16 53.4
COUNTY:	Allegheny	Longitude W	79.925611 79 55 32.2
MUNICIPALITY:	Jefferson Hills		
TOWER TYPE:	Monopole	Number of Sections:	2
HEIGHT:	80'	Future Extension:	No
MANUFACTURER:	Rohn	Top Width:	24"
YEAR BUILT:	1999	Base Width:	30"
FOUNDATION TYPE:	Drilled Pier	Tower Lights:	No
OWNER:	PTC		
TENANTS:	None		
FIELD INVESTIGATIONS:	Structure Mapping	Apr-2017	By: RTS
	Foundation Mapping	Mar-2017	By: DOG
	Geotechnical Report	Jul-2018	By: Tectonic Engineering
	Resistivity	Pending	
CONDITION INSPECTIONS:	TIA Annex J	Apr-2017	By: RTS
	Post-Modification	N/A	
STRUCTURAL ANALYSIS:	Date:	7/13/20	By: Tectonic Engineering
	TIA-222 Revision:	H	
	Structure Class / Risk Category:	III	
	Exposure Category:	C	Basic Wind Speed:
	Topographic Category:	2	Wind Speed with Ice:
	Crest Height:	344'	Design Ice Thickness:
	Ground Elevation:	1036'	1.00 inch
MODIFICATIONS:	None		
CAPACITY RATING:	Pole Shaft:	41%	
	Base Plate:	43%	
	Anchor Bolts:	66%	
	Foundation:	37%	
AVAILABLE RESERVE CAPACITY:		34%	



SUMMARY OF PTC TOWER DATA

PTC SITE NAME:	MFE South Barrier	PTC DISTRICT:	1
PSP SITE NAME/NUMBER:	N/A		
LOCATION:	Smithfield	COORDINATES:	D M S
PTC MILE POST:	M-4.7	Latitude N	39.777472 39 46 38.9
COUNTY:	Fayette	Longitude W	79.777278 79 46 38.2
MUNICIPALITY:	Georges Township		
TOWER TYPE:	Monopole	Number of Sections:	3
HEIGHT:	102'	Future Extension:	No
MANUFACTURER:	Summit	Top Width:	29"
YEAR BUILT:	1999	Base Width:	44"
FOUNDATION TYPE:	Drilled Pier	Tower Lights:	No
OWNER:	PTC		
TENANTS:	None		
FIELD INVESTIGATIONS:	Structure Mapping	Apr-2017	By: RTS
	Foundation Mapping	Mar-2017	By: DOG
	Geotechnical Report	Jun-2018	By: Tectonic Engineering
	Resistivity	Pending	
CONDITION INSPECTIONS:	TIA Annex J	Apr-2017	By: RTS
	Post-Modification	N/A	
STRUCTURAL ANALYSIS:	Date:	7/28/20	By: Tectonic Engineering
	TIA-222 Revision:	H	
	Structure Class / Risk Category:	III	
	Exposure Category:	C	Basic Wind Speed: 116 mph
	Topographic Category:	1	Wind Speed with Ice: 30 mph
	Crest Height:	0'	Design Ice Thickness: 0.50 inch
	Ground Elevation:	1219'	
MODIFICATIONS:	None		
CAPACITY RATING:	Pole Shaft:	23%	
	Base Plate:	32%	
	Anchor Bolts:	51%	
	Foundation:	74%	
AVAILABLE RESERVE CAPACITY:		26%	



SUMMARY OF PTC TOWER DATA

PTC SITE NAME:	Mt Gretna	PTC DISTRICT:	3			
PSP SITE NAME/NUMBER:	N/A					
LOCATION:	Manheim	COORDINATES:		D	M	S
PTC MILE POST:	T-265.5	Latitude N	40.228028	40	13	40.9
COUNTY:	Lancaster	Longitude W	76.452833	76	27	10.2
MUNICIPALITY:	Rapho Township					
TOWER TYPE:	Monopole	Number of Sections:		2		
HEIGHT:	50' + 20' extension	Future Extension:		Yes		
MANUFACTURER:	Rohn	Top Width:		24"		
YEAR BUILT:	2000	Base Width:		30"		
FOUNDATION TYPE:	Mat at grade	Tower Lights:		No		
OWNER:	PTC					
TENANTS:	None					
FIELD INVESTIGATIONS:	Structure Mapping	Apr-2017	By: RTS			
	Foundation Mapping	N/A				
	Geotechnical Report	N/A				
	Resistivity	N/A				
CONDITION INSPECTIONS:	TIA Annex J	Apr-2017	By: RTS			
	Post-Modification	N/A				
STRUCTURAL ANALYSIS:	Date:	2/20/20	By: Tectonic Engineering			
	TIA-222 Revision:	H				
	Structure Class / Risk Category:	III				
	Exposure Category:	C	Basic Wind Speed:	120 mph		
	Topographic Category:	1	Wind Speed with Ice:	40 mph		
	Crest Height:	0'	Design Ice Thickness:	1.00 inch		
	Ground Elevation:	603'				
MODIFICATIONS:	20' extension					
CAPACITY RATING:	Pole Shaft:	28%				
	Base Plate:	19%				
	Anchor Bolts:	20%				
	Foundation:	42%				
AVAILABLE RESERVE CAPACITY:		58%				



SUMMARY OF PTC TOWER DATA

PTC SITE NAME:	New Castle	PTC DISTRICT:	1
PSP SITE NAME/NUMBER:	N/A		
LOCATION:	Big Beaver	COORDINATES:	D M S
PTC MILE POST:	T-9.8	Latitude N	40.836472 40 50 11.3
COUNTY:	Beaver	Longitude W	80.373028 80 22 22.9
MUNICIPALITY:	Big Beaver		
TOWER TYPE:	Self-Support	Number of Sections:	9
HEIGHT:	180'	Future Extension:	Yes
MANUFACTURER:	Rohn	Top Width:	10.8'
YEAR BUILT:	2001	Base Width:	30.2'
FOUNDATION TYPE:	Piers and Footings	Tower Lights:	No
OWNER:	PTC		
TENANTS:	None		
FIELD INVESTIGATIONS:	Structure Mapping	Apr-2017	By: RTS
	Foundation Mapping	N/A	
	Geotechnical Report	N/A	
	Resistivity	N/A	
CONDITION INSPECTIONS:	TIA Annex J	Apr-2017	By: RTS
	Post-Modification	N/A	
STRUCTURAL ANALYSIS:	Date:	7/21/20	By: Tectonic Engineering
	TIA-222 Revision:	H	
	Structure Class / Risk Category:	III	
	Exposure Category:	C	Basic Wind Speed: 116 mph
	Topographic Category:	1	Wind Speed with Ice: 40 mph
	Crest Height:	0'	Design Ice Thickness: 1.00 inch
	Ground Elevation:	1217'	
MODIFICATIONS:	None		
CAPACITY RATING:	Legs:	26%	
	Bracing:	52%	
	Anchor Bolts:	22%	
	Foundation:	71%	
AVAILABLE RESERVE CAPACITY:		29%	



SUMMARY OF PTC TOWER DATA

PTC SITE NAME:	Newcomer	PTC DISTRICT:	1			
PSP SITE NAME/NUMBER:	N/A					
LOCATION:	Uniontown	COORDINATES:		D	M	S
PTC MILE POST:	M-12.6	Latitude N	39.884250	39	53	3.3
COUNTY:	Fayette	Longitude W	79.784028	79	47	2.5
MUNICIPALITY:	Georges Township					
TOWER TYPE:	Self-Support	Number of Sections:		8		
HEIGHT:	152'	Future Extension:		Yes		
MANUFACTURER:	Rohn	Top Width:		6.7'		
YEAR BUILT:	1999	Base Width:		21.0'		
FOUNDATION TYPE:	Drilled piers	Tower Lights:		No		
OWNER:	PTC					
TENANTS:	None					
FIELD INVESTIGATIONS:	Structure Mapping	Apr-2017	By: RTS			
	Foundation Mapping	Mar-2017	By: DOG			
	Geotechnical Report	Jun-2018	By: Tectonic Engineering			
	Resistivity	Pending				
CONDITION INSPECTIONS:	TIA Annex J	Apr-2017	By: RTS			
	Post-Modification	N/A				
STRUCTURAL ANALYSIS:	Date:	2/22/19	By: Tectonic Engineering			
	TIA-222 Revision:	H				
	Structure Class / Risk Category:	III				
	Exposure Category:	C	Basic Wind Speed:	116 mph		
	Topographic Category:	3	Wind Speed with Ice:	30 mph		
	Crest Height:	200'	Design Ice Thickness:	1.00 inch		
	Ground Elevation:	1405'				
MODIFICATIONS:	None					
CAPACITY RATING:	Legs:	54%				
	Bracing:	82%				
	Anchor Bolts:	42%				
	Foundation:	73%				
AVAILABLE RESERVE CAPACITY:		18%				



SUMMARY OF PTC TOWER DATA

PTC SITE NAME:	Newville	PTC DISTRICT:	3			
PSP SITE NAME/NUMBER:	N/A					
LOCATION:	Newville	COORDINATES:		D	M	S
PTC MILE POST:	T-214.2	Latitude N	40.202917	40	12	10.5
COUNTY:	Cumberland	Longitude W	77.379861	77	22	47.5
MUNICIPALITY:	Upper Frankford Township					
TOWER TYPE:	Self-Support	Number of Sections:		10		
HEIGHT:	180'	Future Extension:		No		
MANUFACTURER:	PiRod	Top Width:		5.0'		
YEAR BUILT:	1999	Base Width:		18.0'		
FOUNDATION TYPE:	Mat w/ piers	Tower Lights:		No		
OWNER:	PTC					
TENANTS:	None					
FIELD INVESTIGATIONS:	Structure Mapping	Apr-2017	By: RTS			
	Foundation Mapping	N/A				
	Geotechnical Report	N/A				
	Resistivity	N/A				
CONDITION INSPECTIONS:	TIA Annex J	Mar-2017	By: RTS			
	Post-Modification	N/A				
STRUCTURAL ANALYSIS:	Date:	7/10/17	By: Tectonic Engineering			
	TIA-222 Revision:	G				
	Structure Class / Risk Category:	III				
	Exposure Category:	C	Basic Wind Speed:	90 mph		
	Topographic Category:	1	Wind Speed with Ice:	40 mph		
	Crest Height:	0'	Design Ice Thickness:	0.75 inch		
	Ground Elevation:	550'				
MODIFICATIONS:	None					
CAPACITY RATING:	Legs:	62%				
	Bracing:	72%				
	Anchor Bolts:	25%				
	Foundation:	25%				
AVAILABLE RESERVE CAPACITY:		28%				



SUMMARY OF PTC TOWER DATA

PTC SITE NAME:	Palmerton	PTC DISTRICT:	5
PSP SITE NAME/NUMBER:	LEHI06		
LOCATION:	Washington Township	COORDINATES:	D M S
PTC MILE POST:	A-72.3	Latitude N	40.769583 40 46 10.5
COUNTY:	Lehigh	Longitude W	75.694556 75 41 40.4
MUNICIPALITY:	Washington Township		
TOWER TYPE:	Self-Support	Number of Sections:	9
HEIGHT:	160'	Future Extension:	No
MANUFACTURER:	PiRod	Top Width:	5.0'
YEAR BUILT:	2000	Base Width:	18.0'
FOUNDATION TYPE:	Mat w/ piers	Tower Lights:	No
OWNER:	PTC		
TENANTS:	PSP		
FIELD INVESTIGATIONS:	Structure Mapping	N/A	
	Foundation Mapping	N/A	
	Geotechnical Report	Nov-1999	By: PSI
	Resistivity	N/A	
CONDITION INSPECTIONS:	TIA Annex J	Apr-2013	By: Tectonic Engineering
	Post-Modification	Jan-2017	By: Tectonic Engineering
STRUCTURAL ANALYSIS:	Date:	12/26/18	By: Tectonic Engineering
	TIA-222 Revision:	G	
	Structure Class / Risk Category:	III	
	Exposure Category:	C	Basic Wind Speed: 90 mph
	Topographic Category:	4	Wind Speed with Ice: 40 mph
	Crest Height:	600'	Design Ice Thickness: 0.75 inch
	Ground Elevation:	1325'	
MODIFICATIONS:	Legs, bracing, fdn		See drawings 10/2/14 & 5/13/16
	Horizontals		See PiRod drawings 2000
CAPACITY RATING:	Legs:	85%	
	Bracing:	84%	
	Anchor Bolts:	77%	
	Foundation:	77%	
AVAILABLE RESERVE CAPACITY:		<u>15%</u>	



SUMMARY OF PTC TOWER DATA

PTC SITE NAME:	Pocono	PTC DISTRICT:	5
PSP SITE NAME/NUMBER:	N/A		
LOCATION:	White Haven	COORDINATES:	D M S
PTC MILE POST:	A-94.7	Latitude N	41.072944 41 4 22.6
COUNTY:	Carbon	Longitude W	75.705333 75 42 19.2
MUNICIPALITY:	Kidder Township		
TOWER TYPE:	Self-Support	Number of Sections:	10
HEIGHT:	200'	Future Extension:	Yes
MANUFACTURER:	Rohn	Top Width:	8.8'
YEAR BUILT:	2000	Base Width:	30.2'
FOUNDATION TYPE:	Mat at grade	Tower Lights:	Yes
OWNER:	PTC		
TENANTS:	None		
FIELD INVESTIGATIONS:	Structure Mapping	Apr-2017	By: RTS
	Foundation Mapping	N/A	
	Geotechnical Report	N/A	
	Resistivity	N/A	
CONDITION INSPECTIONS:	TIA Annex J	Apr-2017	By: RTS
	Post-Modification	N/A	
STRUCTURAL ANALYSIS:	Date:	11/2/17	By: Tectonic Engineering
	TIA-222 Revision:	G	
	Structure Class / Risk Category:	III	
	Exposure Category:	C	Basic Wind Speed: 90 mph
	Topographic Category:	1	Wind Speed with Ice: 40 mph
	Crest Height:	0'	Design Ice Thickness: 0.75 inch
	Ground Elevation:	1533'	
MODIFICATIONS:	None		
CAPACITY RATING:	Legs:	32%	
	Bracing:	65%	
	Anchor Bolts:	28%	
	Foundation:	34%	
AVAILABLE RESERVE CAPACITY:		35%	



SUMMARY OF PTC TOWER DATA

PTC SITE NAME:	Radio Hill	PTC DISTRICT:	5
PSP SITE NAME/NUMBER:	N/A		
LOCATION:	Scranton	COORDINATES:	D M S
PTC MILE POST:	A-127.9	Latitude N	41.458222 41 27 29.6
COUNTY:	Lackawanna	Longitude W	75.701833 75 42 6.6
MUNICIPALITY:	Newton Township		
TOWER TYPE:	Self-Support	Number of Sections:	9
HEIGHT:	180'	Future Extension:	No
MANUFACTURER:	Rohn	Top Width:	6.7'
YEAR BUILT:	1999	Base Width:	21.0'
FOUNDATION TYPE:	Piers and Footings	Tower Lights:	Yes
OWNER:	PTC		
TENANTS:	None		
FIELD INVESTIGATIONS:	Structure Mapping	Apr-2017	By: RTS
	Foundation Mapping	N/A	
	Geotechnical Report	N/A	
	Resistivity	N/A	
CONDITION INSPECTIONS:	TIA Annex J	Apr-2017	By: RTS
	Post-Modification	TBD	
STRUCTURAL ANALYSIS:	Date:	11/27/17	By: Tectonic Engineering
	TIA-222 Revision:	G	
	Structure Class / Risk Category:	III	
	Exposure Category:	C	Basic Wind Speed: 90 mph
	Topographic Category:	5	Wind Speed with Ice: 40 mph
	Crest Height:	776'	Design Ice Thickness: 0.75 inch
	Ground Elevation:	2143'	
MODIFICATIONS:	Pending legs, bracing, AB	See drawings 11/27/17	
CAPACITY RATING:	Legs:	82%	
	Bracing:	82%	
	Anchor Bolts:	84%	
	Foundation:	76%	
AVAILABLE RESERVE CAPACITY:		16%	Once mods are installed



SUMMARY OF PTC TOWER DATA

PTC SITE NAME:	Redstone	PTC DISTRICT:	1			
PSP SITE NAME/NUMBER:	N/A					
LOCATION:	New Salem	COORDINATES:		D	M	S
PTC MILE POST:	M-19.5	Latitude N	39.971500	39	58	17.4
COUNTY:	Fayette	Longitude W	79.812222	79	48	44.0
MUNICIPALITY:	Redstone Township					
TOWER TYPE:	Self-Support	Number of Sections:		8		
HEIGHT:	150'	Future Extension:		No		
MANUFACTURER:	GlenMartin	Top Width:		3.0'		
YEAR BUILT:	2008	Base Width:		17.0'		
FOUNDATION TYPE:	Mat w/ piers	Tower Lights:		No		
OWNER:	PTC					
TENANTS:	None					
FIELD INVESTIGATIONS:	Structure Mapping	Apr-2017	By: RTS			
	Foundation Mapping		N/A			
	Geotechnical Report		N/A			
	Resistivity		N/A			
CONDITION INSPECTIONS:	TIA Annex J	Apr-2017	By: RTS			
	Post-Modification		N/A			
STRUCTURAL ANALYSIS:	Date:	11/10/17	By: Tectonic Engineering			
	TIA-222 Revision:	G				
	Structure Class / Risk Category:	III				
	Exposure Category:	C	Basic Wind Speed:		90 mph	
	Topographic Category:	1	Wind Speed with Ice:		40 mph	
	Crest Height:	0'	Design Ice Thickness:		0.75 inch	
	Ground Elevation:	1268'				
MODIFICATIONS:	None					
CAPACITY RATING:	Legs:	24%				
	Bracing:	47%				
	Anchor Bolts:	16%				
	Foundation:	27%				
AVAILABLE RESERVE CAPACITY:		53%				



SUMMARY OF PTC TOWER DATA

PTC SITE NAME:	Rodney	PTC DISTRICT:	1
PSP SITE NAME/NUMBER:	N/A		
LOCATION:	Acme	COORDINATES:	D M S
PTC MILE POST:	T-86.5	Latitude N	40.165722 40 9 56.6
COUNTY:	Westmoreland	Longitude W	79.404806 79 24 17.3
MUNICIPALITY:	Mount Pleasant Township		
TOWER TYPE:	Self-Support	Number of Sections:	10
HEIGHT:	200'	Future Extension:	No
MANUFACTURER:	Rohn	Top Width:	6.5'
YEAR BUILT:	1988	Base Width:	24.8'
FOUNDATION TYPE:	Drilled Piers	Tower Lights:	Yes
OWNER:	PTC		
TENANTS:	None		
FIELD INVESTIGATIONS:	Structure Mapping	Nov-2015	By: VSI
	Foundation Mapping	Oct-2015	By: VSI
	Geotechnical Report	N/A	
	Resistivity	N/A	
CONDITION INSPECTIONS:	TIA Annex J	Nov-2015	By: VSI
	Post-Modification	N/A	
STRUCTURAL ANALYSIS:	Date:	3/6/18	By: Tectonic Engineering
	TIA-222 Revision:	G	
	Structure Class / Risk Category:	III	
	Exposure Category:	C	Basic Wind Speed: 90 mph
	Topographic Category:	1	Wind Speed with Ice: 40 mph
	Crest Height:	0'	Design Ice Thickness: 0.75 inch
	Ground Elevation:	2125'	
MODIFICATIONS:	Legs, bracing	See drawings 6/28/17	
CAPACITY RATING:	Legs:	90%	
	Bracing:	120%	
	Anchor Bolts:	70%	
	Foundation:	70%	
AVAILABLE RESERVE CAPACITY:		-20%	



SUMMARY OF PTC TOWER DATA

PTC SITE NAME:	Salem Church	PTC DISTRICT:	1		
PSP SITE NAME/NUMBER:	ALLE01				
LOCATION:	Gibsonia	COORDINATES:	D	M	S
PTC MILE POST:	T-34.8	Latitude N	40.634722	40	38 5.0
COUNTY:	Allegheny	Longitude W	80.007139	80	0 25.7
MUNICIPALITY:	Pine Township				
TOWER TYPE:	Self-Support	Number of Sections:	11		
HEIGHT:	195'	Future Extension:	Yes		
MANUFACTURER:	PiRod	Top Width:	8.0'		
YEAR BUILT:	1996	Base Width:	26.0'		
FOUNDATION TYPE:	Drilled Piers	Tower Lights:	No		
OWNER:	PTC				
TENANTS:	PSP Verizon AT&T				
FIELD INVESTIGATIONS:	Structure Mapping	Mar-2017	By:	RTS	
	Foundation Mapping			N/A	
	Geotechnical Report	Oct-1993	By:	PSI	
	Resistivity			N/A	
CONDITION INSPECTIONS:	TIA Annex J	Mar-2017	By:	RTS	
	Post-Modification	Oct-2012	By:	GPD Group	
STRUCTURAL ANALYSIS:	Date:	5/23/17	By:	Tectonic Engineering	
	TIA-222 Revision:	G			
	Structure Class / Risk Category:	III			
	Exposure Category:	C	Basic Wind Speed:	90 mph	
	Topographic Category:	1	Wind Speed with Ice:	40 mph	
	Crest Height:	0'	Design Ice Thickness:	0.75 inch	
	Ground Elevation:	1310'			
MODIFICATIONS:	Bracing		See Stegman/TAE drawings 2007 & 2012		
	Bracing		See PiRod drawings 2001		
CAPACITY RATING:	Legs:	80%			
	Bracing:	82%			
	Anchor Bolts:	61%			
	Foundation:	55%			
AVAILABLE RESERVE CAPACITY:		<u>18%</u>			



SUMMARY OF PTC TOWER DATA

PTC SITE NAME:	Sideling Hill	PTC DISTRICT:	2
PSP SITE NAME/NUMBER:	FULT01		
LOCATION:	Harrisonville	COORDINATES:	D M S
PTC MILE POST:	T-167.6	Latitude N	40.012167 40 0 43.8
COUNTY:	Fulton	Longitude W	78.147167 78 8 49.8
MUNICIPALITY:	Brush Creek Township		
TOWER TYPE:	Self-Support	Number of Sections:	10
HEIGHT:	180'	Future Extension:	No
MANUFACTURER:	PiRod	Top Width:	5.0'
YEAR BUILT:	1999	Base Width:	18.0'
FOUNDATION TYPE:	Mat w/ piers	Tower Lights:	No
OWNER:	PTC		
TENANTS:	PSP		
FIELD INVESTIGATIONS:	Structure Mapping	Nov-2015	By: VSI
	Foundation Mapping	Nov-2015	By: VSI
	Geotechnical Report	N/A	
	Resistivity	N/A	
CONDITION INSPECTIONS:	TIA Annex J	Nov-2015	By: VSI
	Post-Modification	N/A	
STRUCTURAL ANALYSIS:	Date:	6/19/19	By: Tectonic Engineering
	TIA-222 Revision:	H	
	Structure Class / Risk Category:	III	
	Exposure Category:	C	Basic Wind Speed: 118 mph
	Topographic Category:	1	Wind Speed with Ice: 40 mph
	Crest Height:	0'	Design Ice Thickness: 1.00 inch
	Ground Elevation:	2287'	
MODIFICATIONS:	None		
CAPACITY RATING:	Legs:	64%	
	Bracing:	78%	
	Anchor Bolts:	38%	
	Foundation:	39%	
AVAILABLE RESERVE CAPACITY:		22%	



SUMMARY OF PTC TOWER DATA

PTC SITE NAME:	Slatington	PTC DISTRICT:	5
PSP SITE NAME/NUMBER:	N/A		
LOCATION:	Slatington	COORDINATES:	D M S
PTC MILE POST:	A-70.1	Latitude N	40.766389 40 45 59.0
COUNTY:	Lehigh	Longitude W	75.643139 75 38 35.3
MUNICIPALITY:	Washington Township		
TOWER TYPE:	Self-Support	Number of Sections:	4
HEIGHT:	80'	Future Extension:	Yes
MANUFACTURER:	Rohn	Top Width:	10.8'
YEAR BUILT:	2000	Base Width:	18.8'
FOUNDATION TYPE:	Piers and Footings	Tower Lights:	No
OWNER:	PTC		
TENANTS:	None		
FIELD INVESTIGATIONS:	Structure Mapping	Apr-2017	By: RTS
	Foundation Mapping	N/A	
	Geotechnical Report	N/A	
	Resistivity	N/A	
CONDITION INSPECTIONS:	TIA Annex J	Apr-2017	By: RTS
	Post-Modification	N/A	
STRUCTURAL ANALYSIS:	Date:	10/13/17	By: Tectonic Engineering
	TIA-222 Revision:	G	
	Structure Class / Risk Category:	III	
	Exposure Category:	C	Basic Wind Speed: 90 mph
	Topographic Category:	1	Wind Speed with Ice: 40 mph
	Crest Height:	0'	Design Ice Thickness: 1.00 inch
	Ground Elevation:	718'	
MODIFICATIONS:	None		
CAPACITY RATING:	Legs:	13%	
	Bracing:	33%	
	Anchor Bolts:	9%	
	Foundation:	39%	
AVAILABLE RESERVE CAPACITY:		61%	



SUMMARY OF PTC TOWER DATA

PTC SITE NAME:	Somerset	PTC DISTRICT:	2
PSP SITE NAME/NUMBER:	N/A		
LOCATION:	Somerset	COORDINATES:	D M S
PTC MILE POST:	T-113.9	Latitude N	39.992500 39 59 33.0
COUNTY:	Somerset	Longitude W	79.018861 79 1 7.9
MUNICIPALITY:	Somerset Township		
TOWER TYPE:	Self-Support	Number of Sections:	9
HEIGHT:	180'	Future Extension:	Yes
MANUFACTURER:	Rohn	Top Width:	10.8'
YEAR BUILT:	2000	Base Width:	30.2'
FOUNDATION TYPE:	Drilled Piers	Tower Lights:	No
OWNER:	PTC		
TENANTS:	None		
FIELD INVESTIGATIONS:	Structure Mapping	Oct-2015	By: VSI
	Foundation Mapping	Oct-2015	By: VSI
	Geotechnical Report	N/A	
	Resistivity	N/A	
CONDITION INSPECTIONS:	TIA Annex J	Nov-2015	By: VSI
	Post-Modification	N/A	
STRUCTURAL ANALYSIS:	Date:	1/20/16	By: Tectonic Engineering
	TIA-222 Revision:	G	
	Structure Class / Risk Category:	III	
	Exposure Category:	C	Basic Wind Speed: 90 mph
	Topographic Category:	1	Wind Speed with Ice: 40 mph
	Crest Height:	0'	Design Ice Thickness: 0.75 inch
	Ground Elevation:	2365'	
MODIFICATIONS:	None		
CAPACITY RATING:	Legs:	27%	
	Bracing:	59%	
	Anchor Bolts:	23%	
	Foundation:	24%	
AVAILABLE RESERVE CAPACITY:		41%	



SUMMARY OF PTC TOWER DATA

PTC SITE NAME:	South Mountain	PTC DISTRICT:	5
PSP SITE NAME/NUMBER:	LEHI01		
LOCATION:	Emmaus	COORDINATES:	D M S
PTC MILE POST:	A-50.8	Latitude N	40.519528 40 31 10.3
COUNTY:	Lehigh	Longitude W	75.488778 75 29 19.6
MUNICIPALITY:	Upper Milford Township		
TOWER TYPE:	Self-Support	Number of Sections:	10
HEIGHT:	180'	Future Extension:	No
MANUFACTURER:	PiRod	Top Width:	5.0'
YEAR BUILT:	2000	Base Width:	20.0'
FOUNDATION TYPE:	Mat w/ piers	Tower Lights:	No
OWNER:	PTC		
TENANTS:	PSP		
FIELD INVESTIGATIONS:	Structure Mapping	N/A	
	Foundation Mapping	N/A	
	Geotechnical Report	Apr-2000	By: PSI
	Resistivity	N/A	
CONDITION INSPECTIONS:	TIA Annex J	Apr-2013	By: Tectonic Engineering
	Post-Modification	Sep-2015	By: Tectonic Engineering
	"	May-2018	"
STRUCTURAL ANALYSIS:	Date:	1/15/19	By: Tectonic Engineering
	TIA-222 Revision:	H	
	Structure Class / Risk Category:	III	
	Exposure Category:	C	Basic Wind Speed:
	Topographic Category:	3	120 mph
	Crest Height:	400'	Wind Speed with Ice:
	Ground Elevation:	931'	40 mph
			Design Ice Thickness:
			1.00 inch
MODIFICATIONS:	Legs, bracing	See drawings 9/29/14 & 5/4/17	
CAPACITY RATING:	Legs:	76%	
	Bracing:	73%	
	Anchor Bolts:	72%	
	Foundation:	66%	
AVAILABLE RESERVE CAPACITY:		24%	



SUMMARY OF PTC TOWER DATA

PTC SITE NAME:	Thompson's Run	PTC DISTRICT:	1
PSP SITE NAME/NUMBER:	N/A		
LOCATION:	Beaver Falls	COORDINATES:	D M S
PTC MILE POST:	T-15.2	Latitude N	40.801861 40 48 6.7
COUNTY:	Beaver	Longitude W	80.286361 80 17 10.9
MUNICIPALITY:	North Sewickley Township		
TOWER TYPE:	Self-Support	Number of Sections:	15
HEIGHT:	330'	Future Extension:	No
MANUFACTURER:	Rohn	Top Width:	8.5'
YEAR BUILT:	2004	Base Width:	48.0'
FOUNDATION TYPE:	Drilled Piers	Tower Lights:	Yes
OWNER:	PTC		
TENANTS:	T-Mobile AT&T		
FIELD INVESTIGATIONS:	Structure Mapping	Mar-2017 By: RTS	
	Foundation Mapping	N/A	
	Geotechnical Report	N/A	
	Resistivity	N/A	
CONDITION INSPECTIONS:	TIA Annex J	Mar-2017 By: RTS	
	Post-Modification	N/A	
STRUCTURAL ANALYSIS:	Date:	7/31/20	By: Tectonic Engineering
	TIA-222 Revision:	H	
	Structure Class / Risk Category:	III	
	Exposure Category:	C	Basic Wind Speed: 116 mph
	Topographic Category:	1	Wind Speed with Ice: 40 mph
	Crest Height:	0'	Design Ice Thickness: 1.00 inch
	Ground Elevation:	1322'	
MODIFICATIONS:	None		
CAPACITY RATING:	Legs:	35%	
	Bracing:	76%	
	Anchor Bolts:	44%	
	Foundation:	34%	
AVAILABLE RESERVE CAPACITY:		<u>24%</u>	



SUMMARY OF PTC TOWER DATA

PTC SITE NAME:	Thompson's Run (Old)	PTC DISTRICT:	1
PSP SITE NAME/NUMBER:	BEAV01		
LOCATION:	Beaver Falls	COORDINATES:	D M S
PTC MILE POST:	T-15.2	Latitude N	40.802000 40 48 7.2
COUNTY:	Beaver	Longitude W	80.286389 80 17 11.0
MUNICIPALITY:	North Sewickley Township		
TOWER TYPE:	Self-Support	Number of Sections:	13
HEIGHT:	250'	Future Extension:	No
MANUFACTURER:	PiRod	Top Width:	4.0'
YEAR BUILT:	1990	Base Width:	20.0'
FOUNDATION TYPE:	Drilled Piers	Tower Lights:	Yes
OWNER:	PTC		
TENANTS:	PSP		
	Verizon		
FIELD INVESTIGATIONS:	Structure Mapping	Mar-2017	By: RTS
	Foundation Mapping	Mar-2017	By: DOG
	Geotechnical Report	Feb-2019	By: Tectonic Engineering
	Resistivity	Pending	
CONDITION INSPECTIONS:	TIA Annex J	Mar-2017	By: RTS
	Post-Modification	N/A	
STRUCTURAL ANALYSIS:	Date:	2/6/19	By: Tectonic Engineering
	TIA-222 Revision:	H	
	Structure Class / Risk Category:	III	
	Exposure Category:	C	Basic Wind Speed: 116 mph
	Topographic Category:	1	Wind Speed with Ice: 40 mph
	Crest Height:	0'	Design Ice Thickness: 1.00 inch
	Ground Elevation:	1318'	
MODIFICATIONS:	None		
CAPACITY RATING:	Legs:	77%	
	Bracing:	99%	
	Anchor Bolts:	49%	
	Foundation:	64%	
AVAILABLE RESERVE CAPACITY:		1%	



SUMMARY OF PTC TOWER DATA

PTC SITE NAME:	Trevoze	PTC DISTRICT:	4
PSP SITE NAME/NUMBER:	N/A		
LOCATION:	Bensalem	COORDINATES:	D M S
PTC MILE POST:	T-353.5	Latitude N	40.126639 40 7 35.9
COUNTY:	Bucks	Longitude W	74.940250 74 56 24.9
MUNICIPALITY:	Bensalem		
TOWER TYPE:	Self-Support	Number of Sections:	10
HEIGHT:	195'	Future Extension:	No
MANUFACTURER:	Sabre	Top Width:	5.0'
YEAR BUILT:	2008	Base Width:	23.0'
FOUNDATION TYPE:	Drilled piers	Tower Lights:	No
OWNER:	PTC		
TENANTS:	Verizon		
	T-Mobile		
FIELD INVESTIGATIONS:	Structure Mapping	Jun-2017	By: RTS
	Foundation Mapping	N/A	
	Geotechnical Report	N/A	
	Resistivity	N/A	
CONDITION INSPECTIONS:	TIA Annex J	Apr-2017	By: RTS
	Post-Modification	N/A	
STRUCTURAL ANALYSIS:	Date:	6/15/17	By: Tectonic Engineering
	TIA-222 Revision:	G	
	Structure Class / Risk Category:	III	
	Exposure Category:	C	Basic Wind Speed: 95 mph
	Topographic Category:	1	Wind Speed with Ice: 40 mph
	Crest Height:	0'	Design Ice Thickness: 1.00 inch
	Ground Elevation:	102'	
MODIFICATIONS:	None		
CAPACITY RATING:	Legs:	44%	
	Bracing:	82%	
	Anchor Bolts:	37%	
	Foundation:	46%	
AVAILABLE RESERVE CAPACITY:		18%	



SUMMARY OF PTC TOWER DATA

PTC SITE NAME:	Tuscarora	PTC DISTRICT:	2
PSP SITE NAME/NUMBER:	N/A		
LOCATION:	Fannettsburg	COORDINATES:	D M S
PTC MILE POST:	T-186.7	Latitude N	40.089222 40 5 21.2
COUNTY:	Huntingdon	Longitude W	77.844722 77 50 41.0
MUNICIPALITY:	Dublin Township		
TOWER TYPE:	Self-Support	Number of Sections:	9
HEIGHT:	180'	Future Extension:	No
MANUFACTURER:	Rohn	Top Width:	6.1'
YEAR BUILT:	1995	Base Width:	20.7'
FOUNDATION TYPE:	Drilled piers	Tower Lights:	No
OWNER:	PTC		
TENANTS:	AT&T		
FIELD INVESTIGATIONS:	Structure Mapping	Nov-2015	By: VSI
	Foundation Mapping	Nov-2015	By: VSI
	Geotechnical Report	N/A	
	Resistivity	N/A	
CONDITION INSPECTIONS:	TIA Annex J	Nov-2015	By: VSI
	Post-Modification	Dec-2019	By: Tectonic / RTS
STRUCTURAL ANALYSIS:	Date:	11/30/18	By: Tectonic Engineering
	TIA-222 Revision:	H	
	Structure Class / Risk Category:	III	
	Exposure Category:	C	Basic Wind Speed: 119 mph
	Topographic Category:	4	Wind Speed with Ice: 40 mph
	Crest Height:	900'	Design Ice Thickness: 1.00 inch
	Ground Elevation:	1904'	
MODIFICATIONS:	Legs, bracing, AB		See drawings 11/30/18
CAPACITY RATING:	Legs:	82%	
	Bracing:	81%	
	Anchor Bolts:	69%	
	Foundation:	76%	
AVAILABLE RESERVE CAPACITY:		<u>18%</u>	



SUMMARY OF PTC TOWER DATA

PTC SITE NAME:	Tussey	PTC DISTRICT:	2
PSP SITE NAME/NUMBER:	N/A		
LOCATION:	Everett	COORDINATES:	D M S
PTC MILE POST:	T-153.4	Latitude N	40.002778 40 0 10.0
COUNTY:	Bedford	Longitude W	78.399444 78 23 58.0
MUNICIPALITY:	West Providence Township		
TOWER TYPE:	Monopole	Number of Sections:	4
HEIGHT:	160'	Future Extension:	No
MANUFACTURER:	Rohn	Top Width:	18"
YEAR BUILT:	2001	Base Width:	57"
FOUNDATION TYPE:	Mat at grade	Tower Lights:	No
OWNER:	PTC		
TENANTS:	Verizon		
FIELD INVESTIGATIONS:	Structure Mapping	Nov-2015	By: VSI
	Foundation Mapping	Nov-2015	By: VSI
	Geotechnical Report	May-2001	By: ARM Group
	Resistivity	N/A	
CONDITION INSPECTIONS:	TIA Annex J	Nov-2015	By: VSI
	Post-Modification	N/A	
STRUCTURAL ANALYSIS:	Date:	6/30/16	By: Tectonic Engineering
	TIA-222 Revision:	G	
	Structure Class / Risk Category:	III	
	Exposure Category:	C	Basic Wind Speed: 90 mph
	Topographic Category:	4	Wind Speed with Ice: 40 mph
	Crest Height:	1150'	Design Ice Thickness: 0.75 inch
	Ground Elevation:	2130'	
MODIFICATIONS:	None		Rock anchors per Stegman 2010
CAPACITY RATING:	Pole Shaft:	100%	
	Base Plate:	NG	
	Anchor Bolts:	188%	
	Foundation:	71%	
AVAILABLE RESERVE CAPACITY:		<u>-88%</u>	



SUMMARY OF PTC TOWER DATA

PTC SITE NAME:	Tussey Fire Tower	PTC DISTRICT:	2
PSP SITE NAME/NUMBER:	N/A		
LOCATION:	Everett	COORDINATES:	D M S
PTC MILE POST:	T-153.4	Latitude N	40.003000 40 0 10.8
COUNTY:	Bedford	Longitude W	78.399278 78 23 57.4
MUNICIPALITY:	West Providence Township		
TOWER TYPE:	Self-Support (4 legs)	Number of Sections:	6
HEIGHT:	60' (T/twr), 89' overall	Future Extension:	No
MANUFACTURER:	Aermotor	Top Width:	7.0'
YEAR BUILT:	Circa 1930	Base Width:	16.0'
FOUNDATION TYPE:	Piers	Tower Lights:	No
OWNER:	PTC		
TENANTS:	Multiple		
FIELD INVESTIGATIONS:	Structure Mapping	Sep-2020	By: RTS
	Foundation Mapping	N/A	
	Geotechnical Report	N/A	
	Resistivity	N/A	
CONDITION INSPECTIONS:	TIA Annex J	Sep-2020	By: RTS
	Post-Modification	N/A	
STRUCTURAL ANALYSIS:	Date:	TBD	By: Tectonic Engineering
	TIA-222 Revision:		
	Structure Class / Risk Category:	II	
	Exposure Category:	C	Basic Wind Speed: mph
	Topographic Category:	4	Wind Speed with Ice: 40 mph
	Crest Height:	1150'	Design Ice Thickness: 1.00 inch
	Ground Elevation:	2124'	
MODIFICATIONS:	None		
CAPACITY RATING:	Legs:		
	Bracing:		
	Anchor Bolts:		
	Foundation:		
AVAILABLE RESERVE CAPACITY:	<u>N/A</u>		



SUMMARY OF PTC TOWER DATA

PTC SITE NAME:	Tyson's Corner	PTC DISTRICT:	1
PSP SITE NAME/NUMBER:	N/A		
LOCATION:	New Stanton	COORDINATES:	D M S
PTC MILE POST:	G-0.5	Latitude N	40.235111 40 14 6.4
COUNTY:	Westmoreland	Longitude W	79.594111 79 35 38.8
MUNICIPALITY:	New Stanton		
TOWER TYPE:	Self-Support	Number of Sections:	8
HEIGHT:	152'	Future Extension:	No
MANUFACTURER:	Rohn	Top Width:	6.6'
YEAR BUILT:	1995	Base Width:	18.8'
FOUNDATION TYPE:	Drilled Piers	Tower Lights:	No
OWNER:	PTC		
TENANTS:	None		
FIELD INVESTIGATIONS:	Structure Mapping	Apr-2017	By: RTS
	Foundation Mapping	N/A	
	Geotechnical Report	N/A	
	Resistivity	N/A	
CONDITION INSPECTIONS:	TIA Annex J	Apr-2017	By: RTS
	Post-Modification	N/A	
STRUCTURAL ANALYSIS:	Date:	5/4/17	By: Tectonic Engineering
	TIA-222 Revision:	G	
	Structure Class / Risk Category:	III	
	Exposure Category:	C	Basic Wind Speed:
	Topographic Category:	1	Wind Speed with Ice:
	Crest Height:	0'	Design Ice Thickness:
	Ground Elevation:	1123'	90 mph
			40 mph
			0.75 inch
MODIFICATIONS:	None		
CAPACITY RATING:	Legs:	82%	
	Bracing:	63%	
	Anchor Bolts:	51%	
	Foundation:	57%	
AVAILABLE RESERVE CAPACITY:		18%	



SUMMARY OF PTC TOWER DATA

PTC SITE NAME:	Valley Forge IC	PTC DISTRICT:	4
PSP SITE NAME/NUMBER:	N/A		
LOCATION:	King of Prussia	COORDINATES:	D M S
PTC MILE POST:	T-326.5	Latitude N	40.088083 40 5 17.1
COUNTY:	Montgomery	Longitude W	75.404833 75 24 17.4
MUNICIPALITY:	Upper Merion Township		
TOWER TYPE:	Self-Support	Number of Sections:	10
HEIGHT:	194'	Future Extension:	No
MANUFACTURER:	FWT	Top Width:	4.0'
YEAR BUILT:	2010	Base Width:	22.0'
FOUNDATION TYPE:	Mat w/ piers	Tower Lights:	Yes
OWNER:	PTC		
TENANTS:	T-Mobile AT&T		
FIELD INVESTIGATIONS:	Structure Mapping	Apr-2017	By: RTS
	Foundation Mapping	N/A	
	Geotechnical Report	N/A	
	Resistivity	N/A	
CONDITION INSPECTIONS:	TIA Annex J	Mar-2017	By: RTS
	Post-Modification	N/A	
STRUCTURAL ANALYSIS:	Date:	10/16/17	By: Tectonic Engineering
	TIA-222 Revision:	G	
	Structure Class / Risk Category:	III	
	Exposure Category:	C	Basic Wind Speed:
	Topographic Category:	1	Wind Speed with Ice:
	Crest Height:	0'	Design Ice Thickness:
	Ground Elevation:	193'	1.00 inch
MODIFICATIONS:	None		
CAPACITY RATING:	Legs:	71%	
	Bracing:	48%	
	Anchor Bolts:	39%	
	Foundation:	33%	
AVAILABLE RESERVE CAPACITY:		29%	



SUMMARY OF PTC TOWER DATA

PTC SITE NAME:	Valley Forge (Old)	PTC DISTRICT:	4
PSP SITE NAME/NUMBER:	N/A		
LOCATION:	Malvern	COORDINATES:	D M S
PTC MILE POST:	T-317.4	Latitude N	40.070333 40 4 13.2
COUNTY:	Chester	Longitude W	75.570972 75 34 15.5
MUNICIPALITY:	Charlestown Township		
TOWER TYPE:	Self-Support	Number of Sections:	11
HEIGHT:	255'	Future Extension:	No
MANUFACTURER:	Stainless	Top Width:	5.0'
YEAR BUILT:	1977	Base Width:	25.0'
FOUNDATION TYPE:	Piers and Footings	Tower Lights:	Yes
OWNER:	PTC		
TENANTS:	T-Mobile AT&T		
FIELD INVESTIGATIONS:	Structure Mapping Foundation Mapping Geotechnical Report Resistivity	Apr-2017 N/A Jun-2018 N/A	By: Tectonic Engineering By: Tectonic Engineering
CONDITION INSPECTIONS:	TIA Annex J Post-Modification	Apr-2017 N/A	By: Tectonic Engineering
STRUCTURAL ANALYSIS:	Date: TIA-222 Revision: Structure Class / Risk Category: Exposure Category: Topographic Category: Crest Height: Ground Elevation:	4/17/19 H II C 1 0' 655'	By: Tectonic Engineering Basic Wind Speed: Wind Speed with Ice: Design Ice Thickness:
			114 mph 40 mph 1.00 inch
MODIFICATIONS:	None		
CAPACITY RATING:	Legs: Bracing: Anchor Bolts: Foundation:	61% 81% 45% 80%	
AVAILABLE RESERVE CAPACITY:		19%	



SUMMARY OF PTC TOWER DATA

PTC SITE NAME:	Valley Forge Relay	PTC DISTRICT:	4
PSP SITE NAME/NUMBER:	CHES02		
LOCATION:	Malvern	COORDINATES:	D M S
PTC MILE POST:	T-317.4	Latitude N	40.070250 40 4 12.9
COUNTY:	Chester	Longitude W	75.571278 75 34 16.6
MUNICIPALITY:	Charlestown Township		
TOWER TYPE:	Self-Support	Number of Sections:	19
HEIGHT:	360'	Future Extension:	No
MANUFACTURER:	PiRod	Top Width:	5.0'
YEAR BUILT:	1999	Base Width:	36.0'
FOUNDATION TYPE:	Mat w/ piers	Tower Lights:	Yes
OWNER:	PTC		
TENANTS:	PSP		
	Sprint		
FIELD INVESTIGATIONS:	Structure Mapping	May-2016 By: VSI	
	Foundation Mapping	May-2016 By: VSI	
	Geotechnical Report	Nov-1999 By: PSI	
	Resistivity	Dec-2018 By: Tectonic Engineering	
CONDITION INSPECTIONS:	TIA Annex J	May-2016 By: VSI	
	Post-Modification	Jul-2017 By: Tectonic Engineering	
STRUCTURAL ANALYSIS:	Date:	7/24/20	By: Tectonic Engineering
	TIA-222 Revision:	H	
	Structure Class / Risk Category:	III	
	Exposure Category:	C	Basic Wind Speed: 123 mph
	Topographic Category:	4	Wind Speed with Ice: 40 mph
	Crest Height:	200'	Design Ice Thickness: 1.00 inch
	Ground Elevation:	645'	
MODIFICATIONS:	Legs, bracing	See drawings 10/17/16	
CAPACITY RATING:	Legs:	69%	
	Bracing:	59%	
	Anchor Bolts:	49%	
	Foundation:	58%	
AVAILABLE RESERVE CAPACITY:		31%	



SUMMARY OF PTC TOWER DATA

PTC SITE NAME:	West Shore	PTC DISTRICT:	3
PSP SITE NAME/NUMBER:	N/A		
LOCATION:	New Cumberland	COORDINATES:	D M S
PTC MILE POST:	T-241.9	Latitude N	40.211056 40 12 39.8
COUNTY:	Cumberland	Longitude W	76.875944 76 52 33.4
MUNICIPALITY:	Fairview Township		
TOWER TYPE:	Monopole	Number of Sections:	1
HEIGHT:	30'	Future Extension:	No
MANUFACTURER:	Valmont-Microflex	Top Width:	13"
YEAR BUILT:	2000	Base Width:	13"
FOUNDATION TYPE:	Drilled Pier	Tower Lights:	No
OWNER:	PTC		
TENANTS:	None		
FIELD INVESTIGATIONS:	Structure Mapping	Apr-2017	By: RTS
	Foundation Mapping	Mar-2017	By: DOG
	Geotechnical Report	Jun-2018	By: Tectonic Engineering
	Resistivity	Aug-2019	By: Tectonic Engineering
CONDITION INSPECTIONS:	TIA Annex J	Apr-2017	By: RTS
	Post-Modification	N/A	
STRUCTURAL ANALYSIS:	Date:	2/10/20	By: Tectonic Engineering
	TIA-222 Revision:	H	
	Structure Class / Risk Category:	III	
	Exposure Category:	C	Basic Wind Speed: 120 mph
	Topographic Category:	1	Wind Speed with Ice: 40 mph
	Crest Height:	0'	Design Ice Thickness: 1.00 inch
	Ground Elevation:	406'	
MODIFICATIONS:	None		
CAPACITY RATING:	Pole Shaft:	23%	
	Base Plate:	27%	
	Anchor Bolts:	33%	
	Foundation:	61%	
AVAILABLE RESERVE CAPACITY:		39%	



SUMMARY OF PTC TOWER DATA

PTC SITE NAME:	Willow Grove (New)	PTC DISTRICT:	4		
PSP SITE NAME/NUMBER:	MONY04				
LOCATION:	Willow Grove	COORDINATES:	D	M	S
PTC MILE POST:	T-343.4	Latitude N	40.142444	40	8 32.8
COUNTY:	Montgomery	Longitude W	75.106111	75	6 22.0
MUNICIPALITY:	Upper Moreland Township				
TOWER TYPE:	Self-Support	Number of Sections:	11		
HEIGHT:	217'	Future Extension:	No		
MANUFACTURER:	Valmont	Top Width:	5.0'		
YEAR BUILT:	2018	Base Width:	23.0'		
FOUNDATION TYPE:	Drilled Piers	Tower Lights:	Yes		
OWNER:	PTC				
TENANTS:	PSP Montgomery County Police/Fire/PW				
FIELD INVESTIGATIONS:	Structure Mapping	N/A			
	Foundation Mapping	N/A			
	Geotechnical Report	Apr-2017	By: Tectonic Engineering		
	Resistivity	N/A			
CONDITION INSPECTIONS:	TIA Annex J	N/A			
	Post-Construction	May-2018	By: Tectonic Engineering		
STRUCTURAL ANALYSIS:	Date:	8/2/17	By: Tectonic Engineering		
	TIA-222 Revision:	G			
	Structure Class / Risk Category:	III			
	Exposure Category:	C	Basic Wind Speed:	90 mph	
	Topographic Category:	1	Wind Speed with Ice:	40 mph	
	Crest Height:	0'	Design Ice Thickness:	1.00 inch	
	Ground Elevation:	437'			
MODIFICATIONS:	None				
CAPACITY RATING:	Legs:	48%			
	Bracing:	91%			
	Anchor Bolts:	26%			
	Foundation:	32%			
AVAILABLE RESERVE CAPACITY:		<u>9%</u>	As designed		



SUMMARY OF PTC TOWER DATA

PTC SITE NAME:	Wyoming Maint	PTC DISTRICT:	5
PSP SITE NAME/NUMBER:	N/A		
LOCATION:	Pittston	COORDINATES:	D M S
PTC MILE POST:	A-114.6	Latitude N	41.309361 41 18 33.7
COUNTY:	Luzerne	Longitude W	75.756611 75 45 23.8
MUNICIPALITY:	Pittston Township		
TOWER TYPE:	Monopole	Number of Sections:	2
HEIGHT:	70'	Future Extension:	Yes
MANUFACTURER:	Rohn	Top Width:	36"
YEAR BUILT:	2001	Base Width:	42"
FOUNDATION TYPE:	Mat at grade	Tower Lights:	No
OWNER:	PTC		
TENANTS:	None		
FIELD INVESTIGATIONS:	Structure Mapping	Mar-2017 By: RTS	
	Foundation Mapping	N/A	
	Geotechnical Report	N/A	
	Resistivity	N/A	
CONDITION INSPECTIONS:	TIA Annex J	Mar-2017 By: RTS	
	Post-Modification	N/A	
STRUCTURAL ANALYSIS:	Date:	10/9/17	By: Tectonic Engineering
	TIA-222 Revision:	G	
	Structure Class / Risk Category:	III	
	Exposure Category:	C	Basic Wind Speed: 90 mph
	Topographic Category:	1	Wind Speed with Ice: 40 mph
	Crest Height:	0'	Design Ice Thickness: 0.75 inch
	Ground Elevation:	903'	
MODIFICATIONS:	None		
CAPACITY RATING:	Pole Shaft:	10%	
	Base Plate:	11%	
	Anchor Bolts:	13%	
	Foundation:	19%	
AVAILABLE RESERVE CAPACITY:		<u>81%</u>	



SUMMARY OF PTC TOWER DATA

PTC SITE NAME:	Wyoming Relay	PTC DISTRICT:	5
PSP SITE NAME/NUMBER:	N/A		
LOCATION:	Wilkes Barre	COORDINATES:	D M S
PTC MILE POST:	A-106.3	Latitude N	41.196000 41 11 45.6
COUNTY:	Luzerne	Longitude W	75.826139 75 49 34.1
MUNICIPALITY:	Bear Creek Township		
TOWER TYPE:	Self-Support	Number of Sections:	9
HEIGHT:	180'	Future Extension:	No
MANUFACTURER:	Rohn	Top Width:	6.7'
YEAR BUILT:	1999	Base Width:	21.0'
FOUNDATION TYPE:	Mat w/ piers	Tower Lights:	No
OWNER:	PTC		
TENANTS:	None		
FIELD INVESTIGATIONS:	Structure Mapping	Apr-2017	By: RTS
	Foundation Mapping	N/A	
	Geotechnical Report	N/A	
	Resistivity	N/A	
CONDITION INSPECTIONS:	TIA Annex J	Apr-2017	By: RTS
	Post-Modification	N/A	
STRUCTURAL ANALYSIS:	Date:	1/4/19	By: Tectonic Engineering
	TIA-222 Revision:	H	
	Structure Class / Risk Category:	III	
	Exposure Category:	C	Basic Wind Speed: 120 mph
	Topographic Category:	1	Wind Speed with Ice: 40 mph
	Crest Height:	0'	Design Ice Thickness: 1.00 inch
	Ground Elevation:	2120'	
MODIFICATIONS:	None		
CAPACITY RATING:	Legs:	54%	
	Bracing:	73%	
	Anchor Bolts:	44%	
	Foundation:	37%	
AVAILABLE RESERVE CAPACITY:		27%	