# DIRECT TESTIMONY OF MARTIN D. DICKEY
# VICE PRESIDENT, TRANSMISSION CONSTRUCTION & MAINTENANCE
# DUKE ENERGY BUSINESS SERVICES LLC
# ON BEHALF OF DUKE ENERGY INDIANA, LLC
# CAUSE NO. 44720 TDSIC-9 BEFORE THE
# INDIANA UTILITY REGULATORY COMMISSION

## I. INTRODUCTION

**Q. PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.**

A. My name is Martin D. Dickey, and my business address is 1000 East Main Street, Plainfield, Indiana 46168.

**Q. BY WHOM ARE YOU EMPLOYED AND IN WHAT CAPACITY?**

A. I am employed as Vice President, Transmission Construction & Maintenance by Duke Energy Business Services LLC, a service company subsidiary of Duke Energy Corporation, and a non-utility affiliate of Duke Energy Indiana, LLC ("Duke Energy Indiana" or "Company").

**Q. WHAT ARE YOUR DUTIES AND RESPONSIBILITIES AS VICE PRESIDENT TRANSMISSION CONSTRUCTION & MAINTENANCE?**

A. As Vice President for Transmission Construction & Maintenance, I am responsible for leading a team of Construction and Maintenance Managers, Supervisors, and technical craft employees to achieve company objectives. I facilitate and direct activities that supported customers and communities to provide a safe and efficient high voltage electric system and support a productive and motivated team of employees. There are approximately 400 employees assigned to the Midwest Transmission Construction and Maintenance team and an

additional 200 contract support personnel. The Midwest Transmission Construction & Maintenance organization maintains over 900 substations and approximately 8,000 miles of transmission lines in the states of Kentucky, Ohio, and Indiana. The team is also responsible for the construction of future substation and transmission line assets and upgrades. I am responsible for meeting financial and operational performance objectives for the Midwest Transmission organization and had significant day-to-day decision-making authority for transmission operations. I am also responsible for compliance with all applicable state, federal and company requirements related to the Midwest transmission system. This includes, but is not limited to, Federal Energy Regulatory ("FERC") and North American Electric Reliability Corporation ("NERC") applicable standards.

**Q. PLEASE BRIEFLY DESCRIBE YOUR EDUCATIONAL AND PROFESSIONAL BACKGROUND.**

A. I have been employed with Duke Energy and its predecessor companies for 34 years. I have held progressive levels of responsibility and experience beginning in the craft series and progressing through Technical Services, Substation Construction & Maintenance supervision, Transmission Line Maintenance and Construction supervision and management, Substation Services supervision and management, Transmission Construction & Maintenance Area Manager responsibilities, Transmission Construction & Maintenance General Manager for the Midwest covering Indiana, Ohio, and Kentucky, and my current position as Vice President

Transmission Construction & Maintenance for the Midwest covering Indiana, Ohio, & Kentucky. I have a 2-year degree in Electronics Technology and a Bachelor of Science Degree in Business Administration.

**Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY IN THIS PROCEEDING?**

A. My testimony will summarize the completed Transmission Line, Transmission Substation and Distribution Substation projects through December 31, 2020. This will include an update on our in-service costs versus the cost estimates we provided in the TDSIC-8 proceedings.

## II. OVERVIEW OF TRANSMISSION UPDATE

**Q. DO YOU HAVE ANY GENERAL CONCLUSIONS REGARDING THE T&D PLAN?**

A. Yes. Generally, the Transmission Line, Transmission Substation and Distribution Substation portions of the T&D Plan, which are the portions of the T&D Plan for which I have management oversight responsibility, are being executed within the scope and schedule identified in Cause No. 44720 and as updated in our semi-annual rider proceedings. Further, although there are some variances in the cost estimates for individual projects, we continue to trend very closely with our overall estimate for the transmission line and substation costs identified in Cause No. 44720 and as updated in our semi-annual rider proceedings.

**Q. HAS DUKE ENERGY INDIANA COMPLETED THE WORK THROUGH DECEMBER 31, 2020 AS DESCRIBED IN ITS CASE-IN-CHIEF IN CAUSE NO. 44720 AND MOST RECENTLY UPDATED IN TDSIC-8?**

A. Yes. For Distribution Substation charges, 34 completed projects included Distribution Substation charges totaling $41,861,022, which is 5% less than the project estimates of $43,883,867. 56 completed projects included Transmission Line charges totaling $25,252,047, which is 2% more than the cost estimates of $24,641,398. 28 completed projects included Transmission Substation charges totaling $33,090,401, which is 3% less than the cost estimates of $34,210,611. Overall, Duke Energy Indiana placed 118 projects in-service with an actual cost of $100,203,469 which is 2% less than the estimated value of $102,735,876, prior to the application of contingency. Please refer to Petitioner's Exhibit 1-A (CMH).

**Q. WILL THERE BE CHARGES FOR PROJECTS THAT WENT INTO SERVICE IN 2020 THAT ARE RECEIVED AFTER THE DECEMBER 31, 2020 CUTOFF DATE?**

A. Yes. Since some of these projects were placed in-service near the end of 2020, some charges were received after the December 31, 2020 date. These will be requested to be recovered in the planned TDSIC-11 cost recovery filing scheduled for the Spring of 2022.

**Q. WERE THERE ANY 2020 TRANSMISSION LINE, TRANSMISSION SUBSTATION, OR DISTRIBUTION SUBSTATION PROJECTS THAT DID NOT GO INTO SERVICE IN 2020 AS PLANNED?**

A. Yes. Due to outage constraints, delayed component delivery, and national storm response, a total of 19 projects had portions of or the entirety of a project not go into service as planned by December 31, 2020. These projects are now to be completed in 2021 or 2022. Nonetheless, the plan has been effective as the T&D combined plans are near the established cap level through the first five years of the TDSIC plan. Transmission Business is 3% ahead of the original plan through 2020. The forecasted value of these projects is $6 million, or 6% of the overall 2020 Transmission project plan. Please see Petitioner's Confidential Workpaper 2-MDD.

**Q. WHAT ARE DUKE ENERGY INDIANA'S PLANS FOR COMPLETING 2020 PROJECTS THAT WERE CARRIED OVER INTO 2021 AND 2022?**

A. Projects have been integrated into the 2021 or 2022 outage schedule with plans to place them in-service prior to December 31, 2022. There are five exceptions for projects that have been cancelled, totaling $700,000. See details in Workpaper 2-MDD.

**Q. DOES DUKE ENERGY INDIANA REMAIN ON TARGET TO PERFORM THE WORK IDENTIFIED IN ITS T&D PLAN AS UPDATED IN CAUSE NO. 44720 TDSIC-8?**

A. Yes. Duke Energy Indiana remains on target to perform the T&D Plan as most recently summarized in Cause No. 44720 TDSIC-8.

**Q. WERE ANY PROJECTS MOVED INTO THE T&D PLAN DURING 2020?**

A. No.

## III. UPDATED COST ESTIMATES FOR 2020 IN-SERVICE PROJECTS

**Q. HAS DUKE ENERGY INDIANA PROVIDED IN-SERVICE COSTS FOR THE PROJECTS PLACED INTO SERVICE BY DECEMBER 31, 2020?**

A. Yes. Duke Energy Indiana's costs for projects placed into service by December 31, 2020 have been provided in Petitioner's Exhibits 2-A (MDD) and Confidential Exhibit 2-B (MDD).

**Q. WERE THERE ANY 2020 IN-SERVICE TRANSMISSION LINE, AND T&D SUBSTATION PROJECTS THAT REQUIRED CONTINGENCY AND UNDER-RUN TO BRING THEIR VARIANCES WITHIN 20%?**

A Yes. There are four projects that required the application of contingency and under-run in order to bring the variance of a portion of a project to approximately 20% more than the estimated cost. This evaluation of project variance was done within a portion of an overall project, sub-divided by FERC and by Substation or Line. The projects include:

- Greendale 138kV Grnd Sw Rpl Bk 1-2 AMIN1212
- Lapel Jct Sw Rpl AMIN1189
- Allendale Rlbty Upg TDSIC TIN2075
- Oden Rlbty Upg TDSIC TIN2095

A summary of each project and variance explanations have been provided in Petitioner's Confidential Exhibit 2-B (MDD).

**Q. PLEASE EXPLAIN THE VARIANCE IN OPERATIONS AND MAINTENANCE ("O&M") EXPENSE FOR THE T&D SUBSTATIONS AND TRANSMISSION LINE PROJECTS.**

A. In our most recent T&D Plan update, we estimated $1,175,222 in O&M expense for T&D Substation and Transmission Line projects in 2020. Our actuals for 2020 were $914,939, 22% under the estimated value. See Petitioner's Exhibit 1-A (CMH).

**Q. DO THE BENEFITS OF THE PROPOSED TRANSMISSION PROJECTS CONTINUE TO EXCEED THEIR COSTS?**

A. Yes. As discussed more fully below, the T&D Plan remains on target to be completed as set forth in the Settlement Agreement in Cause No. 44720 and as updated in TDSIC-8. The costs of the plan have not materially changed, and the benefits remain the same as they were described in Cause No. 44720. Because we are completing essentially the same scope of work anticipated by our earlier Risk Analysis provided in Cause No. 44720, the benefits of that risk reduction hold true for the actual work performed to date. Ms. Hart included an updated Risk Analysis in her testimony in TDSIC-8, which demonstrates that we are on track.

**Q. DO YOU BELIEVE THESE PROJECTS ARE STILL IN THE PUBLIC INTEREST?**

A. Yes. We are extremely happy with our performance during the first five years of the T&D Plan. We have performed the scope as outlined in Cause No. 44720, and our forecast at this point has us staying close to the capital cost caps set forth

in the Settlement Agreement we entered into in Cause No. 44720. The total plan is tracking on target for all seven years, and these projects benefit Indiana customers.

**Q. ARE THE WORK ORDERS FOR EACH IN-SERVICE PROJECT AVAILABLE FOR DISCOVERY?**

A. Yes. Individual work orders are available for discovery.

## IV. DUKE ENERGY INDIANA HAS MET STATUTORY REQUIREMENTS

**Q. HAS DUKE ENERGY INDIANA PROVIDED THE BEST ESTIMATE OF THE COSTS OF THE ELIGIBLE TRANSMISSION IMPROVEMENTS?**

A. Yes. Cost estimates have been generated for all T&D Substation and Transmission Line projects included in the T&D Plan. No budgetary estimates were utilized in creating this T&D Plan. Further, in Cause No. 44720, Black & Veatch validated Duke Energy Indiana's estimates and confirmed that they are the best estimate of the costs of the eligible improvements.

**Q. DOES PUBLIC CONVENIENCE AND NECESSITY REQUIRE EACH COMPONENT OF THE T&D PLAN?**

A. Yes. The T&D Plan supports a significant reduction of operational risk through replacement of aging infrastructure. Additionally, the T&D Plan improves the operational efficiency of Duke Energy Indiana's transmission and distribution system. Finally, the T&D Plan addresses and improves upon the overall customer experience and will enable a number of customer benefits and programs in this filing and in future years.

**Q. DO THE ESTIMATED COSTS OF THE T&D PLAN JUSTIFY THE INCREMENTAL BENEFITS OF THE PLAN?**

A. Yes. The transmission reliability and integrity projects included in the T&D Plan are justified based on the overall system risk reduction model created by Black & Veatch. As detailed in Ms. Hart's TDSIC-8 testimony, the risk model was updated to reflect assets that have gone into service through the first five years of the TDSIC plan as well as updating actual and estimated cost and project timing reflected in the TDSIC-8 filing. By executing the T&D Plan, the system risk profile of the transmission and distribution system can be reduced by approximately 30% versus not implementing the T&D Plan. All of this combined demonstrates that the projects and programs included in the T&D Plan are reasonable, necessary, and justified by providing increased reliability and modernization benefits to all Duke Energy Indiana customers.

## V. CONCLUSION

**Q. WERE PETITIONER'S EXHIBIT 2-A (MDD) AND CONFIDENTIAL EXHIBIT 2-B (MDD) PREPARED BY YOU OR AT YOUR DIRECTION?**

A. Yes, they were.

**Q. DOES THIS CONCLUDE YOUR PREFILED TESTIMONY?**

A. Yes, it does.

**PETITIONER'S EXHIBIT 2-A (MDD)**
**IURC Cause No. 44720 TDSIC-9**

**Summary by Functional Category - D-Sub, T-Line, T-Sub**
**Cumulative Investments for Projects In-service by 12/31/20**

| | Capital | | | | | | O&M | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Project Category** | **Cumulative In-Service Investments through 2020** | **Cumulative Filed TDSIC-8 Plan (In-Service Investments)[1]** | **Contingency and Under-Run Applied[2]** | **Filed TDSIC-8 Plan with Contingency and Under-Run Applied** | **Actual vs. Fined TDSIC-5 Plan Variance** | **% Variance** | **Cumulative In-Service Investments through 2020** | **Cumulative Filed TDSIC-8 Plan (related to In-Service Investments)[1]** | **Actual vs. Filed TDSIC-8 Plan Variance** | **% Variance** |
| **Distribution** | | | | | | | | | | |
| Distribution System Substation Improvements[3] | 161,855,234 | 164,070,366 | 0.00 | 164,070,366 | 2,215,131 | 1% | 74,719 | 99,479 | 24,760 | 25% |
| **Transmission** | | | | | | | | | | |
| Transmission System Line Improvements | 218,424,914 | 217,698,524 | 13,576.52 | 217,712,100 | -712,813 | 0% | 10,809,736 | 11,083,568 | 273,832 | 2% |
| Transmission System Substation Improvements | 133,178,466 | 134,283,415 | 0.00 | 134,283,415 | 1,104,949 | 1% | 446,126 | 447,503 | 1,377 | 0% |
| **Grand Total** | **513,458,614** | **516,052,305** | **13,576.52** | **516,065,881** | **2,607,268** | **1%** | **11,330,581** | **11,630,549** | **299,968** | **3%** |

1. Only includes projects from TDSIC-8 Plan that did go into service in 2020 and excludes Contingency.
2. Contingency and Under-Run applied to capital Actuals exceeding the Filed TDSIC-8 Plan by more than 20%; application of Contingency and Under-Run bring variance to 20%. Contingency and Under-Run applied at the Filing Project level.

**PETITIONER'S EXHIBIT 2-B (MDD)**
**IURC CAUSE NO. 44720 TDSIC-9**

**Detail by Functional Category - D-Sub, T-Line, T-Sub by Project**
**Cumulative Investments for Projects In-service by 12/31/20**

| | | | Capital | | | | | | | | O&M | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Actuals | | | Estimate | | | Variance | | Actuals | | | Estimate | Variance | | |
| Project Category | Funding Project | Funding Project Desc | Prior Project Recovery Value | Total TDSIC 9 Recovery[1] | Total Project Recovery Value | Filed TDSIC-8 Plan (In-Service Investments)[2] | Contingency and Under-Run Applied[3] | Filed TDSIC-8 Plan with Contingency and Under-Run Applied | Actual vs. Filed Plan Variance | % Variance | Prior Project Recovery Value | Total TDSIC 9 Recovery[1] | Total Project Recovery Value | Filed TDSIC-8 Plan (related to In-Service Investments)[1] | Actual vs. Filed TDSIC-8 Plan Variance | % Variance | Comments |
| Distribution System Substation Improvements | AMIN1207 | Azalia Wd Sub Struct Rbld VCR Repl | | 0 | | | | | 0 | 0% | | 0 | | | 0 | 0% | |
| | AMIN1224 | Harodsbg_13834 Tranruptr TDSIC | | 0 | | | | | 0 | 0% | 0 | 0 | | 0 | 0 | | |
| | AMIN1229 | Hanover_138kV Transrupter Rpl TDSIC | | 0 | | | | | 0 | 0% | | 0 | | | 0 | 0% | |
| | AMIN1230 | New Alb Cent_138kV Transrupter Rpl | | 0 | | | | | 0 | 0% | 0 | 0 | | 0 | 0 | | |
| | AMIN1241 | Grncas Cem Rd_1201 Disc Rpl TDSIC | | 0 | | | | | 0 | 0% | 0 | 0 | | 0 | 0 | | |
| | AMIN1242 | Kok Delco_Transrupter Rpl | | 0 | | | | | 0 | 0% | 0 | 0 | | 0 | 0 | | |
| | ESODEIFUN | ESO Control Center Facilities -IND. | | 0 | | | | | 0 | 0% | | 0 | | 0 | 0 | | |
| | TIN1542 | BLM Rogers St XTR CB Rpl TDSIC | | | | | | | 0 | 0% | | 0 | | 0 | 0 | | |
| | SGIDASUBF | North Madison_DA_TDSIC | | | | | | | 0 | 0% | | | | | | 0% | |
| | SGIIVVCSF | IN Kokomo SE_IVVC_TDSIC | | | | | | | 0 | 0% | 0 | 0 | 0 | 0 | 0 | | |
| | AMIN1440 | Kokomo Apperson New Sub TDSIC | | | | | | | 0 | 0% | 0 | 0 | 0 | 0 | 0 | | |
| | AMIN1193 | Whitfield 34.5kV CB-Rel Repl TDSIC | | | | | | | 0 | 0% | | 0 | | 0 | 0 | | |
| | TIN1742 | Greencastle Ind Rlbty Upg TDSIC | | | | | | | 0 | 0% | | 0 | | 0 | 0 | | |
| | TIN1476 | Kok Chrys So Upg Sub TDSIC | | | | | | | 0 | 0% | | 0 | | 0 | 0 | | |
| | AMIN1290 | Fairview 138 CB_Rel Rpl TDSIC | | 0 | | | | | 0 | 0% | | 0 | | 0 | 0 | | |
| | TIN1458 | Paragon Repl Fdn TDSIC | | | | | | | 0 | 0% | | 0 | | 0 | 0 | | |
| | AMIN1298 | Shbyv Southwest Rel Repl TDSIC | | | | | | | 0 | 0% | | 0 | | 0 | 0 | | |
| | TIN1046 | BLM Dunn St 69kv Bus Upg | | | | | | | | 0% | | 0 | | 0 | 0 | | |
| | TIN1733 | Martinsvl East Rlbty Upg TDSIC | | | | | | | 0 | 0% | | 0 | | 0 | 0 | | |
| | AMIN1257 | Fountain City_Rpl Trf Sw TDSIC | | | | | | | 0 | 0% | 0 | 0 | 0 | 0 | 0 | | |
| | TIN1750 | Plainfld South Rlbty Upg TDSIC | | | | | | | 0 | 0% | | 0 | | 0 | 0 | | |
| | TIN1734 | Spencer 69KV Rlbty Upg TDSIC | | | | | | | 0 | 0% | | 0 | | 0 | 0 | | |
| | TIN1475 | Loganspt Coplay 69kV Upg TDSIC | | | | | | | 0 | 0% | 0 | 0 | | 0 | 0 | | |
| | TIN1469 | Bedford345_XTR CB Rel Rpl TDSIC | | | | | | | 0 | 0% | | 0 | | 0 | 0 | | |
| | TIN1751 | Rossville Rlbty Upg TDSIC | | | | | | | 0 | 0% | | 0 | | 0 | 0 | | |
| | TIN1732 | Jeffl KY Ave Rlbty Upg TDSIC | | | | | | | 0 | 0% | | 0 | | 0 | 0 | | |
| | TIN1544 | Oakland City CB Rel Repl TDSIC | | | | | | | | 0% | | 0 | | 0 | 0 | | |
| | TIN1814 | Sellersburg Rlbty Upg TDSIC | | | | | | | 0 | 0% | | 0 | | 0 | 0 | | |
| | TIN1800 | Arcadia Rlbty Upg TDSIC | | | | | | | 0 | 0% | | 0 | | 0 | 0 | | |
| | TIN1825 | Bicknell Rlbty Upg TDSIC | | | | | | | 0 | 0% | | 0 | | 0 | 0 | | |
| | TIN1813 | Plainfield 69 Rlbty Upg TDSIC | | | | | | | 0 | 0% | | 0 | | 0 | 0 | | |
| | TIN1811 | New Palestine Rlbty Upg TDSIC | | | | | | | 0 | 0% | | 0 | | 0 | 0 | | |
| | TIN1744 | Jeffvl Potter Rlbty Upg TDSIC | | | | | | | 0 | 0% | | 0 | | 0 | 0 | | |
| | TIN1752 | Sullivan Rlbty Upg TDSIC | | | | | | | 0 | 0% | | 0 | | | 0 | 0% | |
| | TIN1746 | Mitchell 69kV Rlbty Upg TDSIC | | | | | | | 0 | 0% | | 0 | | 0 | 0 | | |
| | TIN1831 | Connersvl30thST Rlbty Upg TDSIC | | | | | | | 0 | 0% | | 0 | | 0 | 0 | | |
| | AMIN1231 | Mad-MichRd_Bk1 Trnrup Rpl TDSIC | | | | | | | | 0% | | 0 | | 0 | 0 | | |
| | TIN1835 | Laf south Rlbty Upg TDSIC | | | | | | | 0 | 0% | | 0 | | 0 | 0 | | |
| | TIN1804 | Grnwd ValleVsta Rlbty Upg TDSIC | | | | | | | | -2% | | 0 | | 0 | 0 | | |
| | TIN1841 | TH S Vigo Rlbty Upg TDSIC | | | | | | | 0 | 0% | | 0 | | 0 | 0 | | |
| | TIN1736 | TH Honey Crk Rlbty Upg TDSIC | | | | | | | 0 | 0% | | 0 | | 0 | 0 | | |
| | TIN2085 | W Laf Cumberlnd Rlbty Upg TDSIC | | | | | | | 0 | 0% | | 0 | | 0 | 0 | | |
| | AMIN1292 | Kokm Hi Pk 69kV CB_Rel Rpl TDSIC | | | | | | | 0 | 0% | | 0 | | 0 | 0 | | |
| | TIN1512 | Bedford 25TH_Gnd Swi Rpl TDSIC | | | | | | | | 0% | | 0 | | 0 | 0 | | |
| | TIN1472 | Clark Maritime XTR 1 Repl TDSIC | | | | | | | 0 | 0% | | 0 | | 0 | 0 | | |
| | TIN1749 | Petersburg Rlbty Upg TDSIC | | | | | | | | 0% | | 0 | | 0 | 0 | | |
| | TIN1468 | Staunton Sub Rbld TDSIC | | | | | | | 0 | 0% | | 0 | | 0 | 0 | | |
| | TIN1735 | TH 6th St Rlbty Upg TDSIC | | | | | | | 0 | 0% | | 0 | | 0 | 0 | | |
| | TIN1728 | Columbus E25th Rlbty Upg TDSIC | | | | | | | 0 | 0% | | 0 | | 0 | 0 | | |
| | TIN1477 | Loogootee Wd Struc Rbld TDSIC | | | | | | | 0 | 0% | | 0 | | 0 | 0 | | |
| | TIN1812 | N Manchester Rlbty Upg TDSIC | | | | | | | 0 | 0% | | 0 | | 0 | 0 | | |
| | TIN1837 | Milan Rlbty Upg TDSIC | | | | | | | 0 | 0% | | 0 | | 0 | 0 | | |
| | TIN1827 | Brazil East Rlbty Upg TDSIC | | | | | | | 0 | 0% | | 0 | | 0 | 0 | | |
| | AMIN1214 | Flat Rock_5000kV XTR Repl TDSIC | | | | | | | 0 | 0% | | 0 | | 0 | 0 | | |
| | TIN1540 | Bethlehem Xtr 1 Repl TDSIC | | | | | | | 0 | 0% | | 0 | | 0 | 0 | | |
| | TIN2123 | Carthage Rlbty Upg TDSIC | | | | | | | 0 | 0% | | 0 | | 0 | 0 | | |
| | TIN1759 | Middletown Rlbty Upg TDSIC | | | | | | | 0 | 0% | | 0 | | 0 | 0 | | |
| | TIN1809 | Nashville Rlbty Upg TDSIC | | | | | | | | -2% | | 0 | | 0 | 0 | | |
| | TIN1826 | Bloomfield Rlbty Upg TDSIC | | 0 | | | | | 0 | 0% | | 0 | | 0 | 0 | | |
| | TIN1810 | New Goshen Rlbty Upg TDSIC | | | | | | | 0 | 0% | | 0 | | 0 | 0 | | |
| | TIN1747 | N Terre Haute Rlbty Upg TDSIC | | 0 | | | | | 0 | 0% | | 0 | | 0 | 0 | | |
| | TIN1836 | Madison-Mich Rd Rlbty Upg TDSIC | | 0 | | | | | | 4% | | 0 | | 0 | 0 | | |
| | TIN1801 | Batesvl Hilbrnd Rlbty Upg TDSIC | | | | | | | 0 | 0% | | 0 | | 0 | 0 | | |
| | TIN2090 | Lapel Rlbty Upg TDSIC | | | | | | | | 2% | | 0 | | 0 | 0 | | |

**PETITIONER'S EXHIBIT 2-B (MDD)**
**IURC CAUSE NO. 44720 TDSIC-9**

**Detail by Functional Category - D-Sub, T-Line, T-Sub by Project**
**Cumulative Investments for Projects In-service by 12/31/20**

| | | | Capital | | | | | | | | O&M | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Actuals | | | Estimate | | | Variance | | Actuals | | | Estimate | Variance | | |
| Project Category | Funding Project | Funding Project Desc | Prior Project Recovery Value | Total TDSIC 9 Recovery[1] | Total Project Recovery Value | Filed TDSIC-8 Plan (In-Service Investments)[2] | Contingency and Under-Run Applied[3] | Filed TDSIC-8 Plan with Contingency and Under-Run Applied | Actual vs. Filed Plan Variance | % Variance | Prior Project Recovery Value | Total TDSIC 9 Recovery[1] | Total Project Recovery Value | Filed TDSIC-8 Plan (related to In-Service Investments)[1] | Actual vs. Filed TDSIC-8 Plan Variance | % Variance | Comments |
| | TIN1817 | TH 13th St Rlbty Upg TDSIC | | | | | | | 0 | 0% | | 0 | | 0 | 0 | | |
| | TIN1808 | Laf Cinn Rlbty Upg TDSIC | | | | | | | 0 | 0% | | 0 | | 0 | 0 | | |
| | TIN1840 | Seymour Rlbty Upg TDSIC | | | | | | | | -4% | | 0 | | 0 | 0 | | |
| | TIN1832 | Franklin 230kV Rlbty Upg TDSIC | | | | | | | | 5% | | 0 | | 0 | 0 | | |
| | TIN1803 | Brownstown Rlbty Upg TDSIC | | | | | | | 0 | 0% | | 0 | | 0 | 0 | | |
| | AMIN1335 | Greenwood West_RTU Rpl TDSIC | | | | | | | 0 | 0% | | 0 | | 0 | 0 | | |
| | TIN1833 | Greenwood North Rlbty Upg TDSIC | | | | | | | | 14% | | 0 | | 0 | 0 | | |
| | TIN1738 | BLM Northwest Rlbty Upg TDSIC | | | | | | | | -1% | | 0 | | 0 | 0 | | |
| | TIN1806 | Hanover Rlbty Upg TDSIC | | | | | | | | 1% | | 0 | | 0 | 0 | | |
| | TIN1708 | 6930 Midway Swi Rpl TDSIC | | | | | | | | 27% | | | | | | 92% | variance less than [redacted] |
| | TIN1818 | TH 25th St Rlbty Upg TDSIC | | | | | | | 0 | 0% | | 0 | | 0 | 0 | | |
| | TIN1777 | Westfield Rlbty Upg TDSIC | | | | | | | 0 | 0% | | 0 | | 0 | 0 | | |
| | TIN1828 | Carmel 146th St Rlbty Upg TDSIC | | | | | | | 0 | 0% | | 0 | | 0 | 0 | | |
| | TIN1743 | Jeffvl 138 Rlbty Upg TDSIC | | | | | | | | 1% | | 0 | | 0 | 0 | | |
| | TIN1823 | West Lafayette Rlbty Upg TDSIC | | | | | | | | 0% | | | | | 0 | 0% | |
| | TIN1830 | Charlestown Rlbty Upg TDSIC | | | | | | | | 2% | | 0 | | 0 | 0 | | |
| | TIN1802 | Brazil Rlbty Upg TDSIC | | | | | | | | 1% | | 0 | | 0 | 0 | | |
| | TIN2093 | BLM Dillman Rd Rlbty Upg TDSIC | | | | | | | | 0% | | 0 | | 0 | 0 | | |
| | TIN2113 | Brkvl LittleCdr Rlbty Upg TDSIC | | | | | | | | -2% | | 0 | | 0 | 0 | | |
| | TIN1819 | TH Spruce Rlbty Upg TDSIC | | | | | | | | 0% | | 0 | | 0 | 0 | | |
| | TIN2063 | Wilmington Rel Rpl TDSIC | | | | | | | | 0% | | 0 | | 0 | 0 | | |
| | TIN2076 | TH Margaret Ave Rlbty Upg TDSIC | | | | | | | | 0% | | 0 | | 0 | 0 | | |
| | TIN2094 | BLM Meadow Park Rlbty Upg TDSIC | | | | | | | | -1% | | 0 | | 0 | 0 | | |
| | TIN2089 | Russiaville Rlbty Upg TDSIC | | | | | | | | 2% | | 0 | | 0 | 0 | | |
| | TIN2067 | Seymour Airport Rlbty Upg TDSIC | | | | | | | | 2% | | 0 | | 0 | 0 | | |
| | TIN2087 | Fishers Rlbty Upg TDSIC | | | | | | | | 19% | | 0 | | 0 | 0 | | |
| | TIN2073 | Cayuga 69kV Rlbty Upg TDSIC | | | | | | | | 6% | | 0 | | 0 | 0 | | |
| | TIN1807 | Kok Toby Pike Rlbty Upg TDSIC | | | | | | | | 3% | | 0 | | 0 | 0 | | |
| | TIN2082 | Delphi Wells St Rel Rpl TDSIC | | | | | | | | 24% | | 0 | | 0 | 0 | | Labor decrease of [redacted] proportional amount of reduction in indirects of [redacted]. Due to work schedule optimization not all estimated internal labor hours were needed to complete the work causing a reduction in the overall labor costs and associated Indirects. |
| | TIN2077 | Grncas CemRd Rlbty Upg TDSIC - TIN2 | | | | | | | | -1% | | 0 | | 0 | 0 | | |
| | TIN2065 | Columbus South Rlbty Upg TDSIC - TI | | | | | | | | -5% | | 0 | | 0 | 0 | | |
| | TIN2112 | Spiceland Rlbty Upg TDSIC | | | | | | | | 6% | | 0 | | 0 | 0 | | |
| | TIN2084 | Thorntown Rlbty Upg TDSIC - TIN2084 | | | | | | | | 2% | | 0 | | 0 | 0 | | |
| | M180062 | Connersvil 12th RlbtyUpgTDSIC | | | | | | | | 4% | | 0 | | 0 | 0 | | |
| | M180197 | Carmel Southeast Rlbty Upg TDSIC | | | | | | | | 7% | | 0 | | 0 | 0 | | |
| | TIN1805 | Hagerstown Rlbty Upg TDSIC | | | | | | | | -1% | | 0 | | 0 | 0 | | |
| | TIN1834 | Laf Concord Rlbty Upg TDSIC | | | | | | | | -3% | | 0 | | 0 | 0 | | |
| | TIN2066 | N Vernon West Rlbty Upg TDSIC - TIN | | | | | | | | -1% | | 0 | | 0 | 0 | | |
| | TIN2075 | Allendale Rlbty Upg TDSIC - TIN2075 | | | | | | | | 49% | | | | 0 | | | Error in transcribing the AFUDC estimate in the TDSIC-8 filing. The estimate entered was [redacted]. The AFUDC value intended to be entered was [redacted]. The actual AFUDC was [redacted]. This is the cause of the [redacted] overestimation of the project. |
| | TIN2078 | Whitesville Rlbty Upg TDSIC | | | | | | | | -20% | | 0 | | 0 | 0 | | Overage was due to [redacted] n material and [redacted] in indirects. Telecom costs were estimated for a standard scenario. As site conditions were realized it was found that Insight had more work needed, therefore an additional [redacted] in materials. |
| | TIN2095 | Odon Rlbty Upg TDSIC - TIN2095 | | | | | | | | 1% | | 0 | | 0 | 0 | | |
| | TIN1839 | Princeton Rlbty Upg TDSIC | | | | | | | | 7% | | 0 | | 0 | 0 | | |
| **Distribution System Substation Improvements Total** | | | **115,650,315** | **46,204,919** | **161,855,234** | **164,070,366** | **0** | **164,070,366** | **2,215,131** | **1%** | **54,231** | **20,488** | **74,719** | **99,479** | **24,760** | **25%** | |
| Transmission System Line Improvements | AMIN0705 | 6935 IN Rebuild Pt 2 TDSIC | | | | | | | 0 | 0% | | 0 | | | 0 | 0% | |
| | AMIN1207 | Azalia Wd Sub Struct Rbld VCR Repl | | 0 | | | | | 0 | 0% | | 0 | | | 0 | 0% | |
| | AMIN1244 | Lincoln WVPA Rpl 69 Sws-Fuse TDSIC | | 0 | | | | | 0 | 0% | 0 | 0 | | 0 | 0 | | |
| | AMIN1279T | 6951 Edwprt HE RgrsJct Rbld TDSIC | | | | | | | 0 | 0% | | 0 | | | 0 | 0% | |
| | AMIN0706 | 6936 IN Rbld Pt 2 TDSIC | | 0 | | | | | 0 | 0% | | 0 | | | 0 | 0% | |
| | AMIN1148 | 34521 IM Dead Strucs TDSIC | | | | | | | 0 | 0% | | 0 | | | 0 | 0% | |
| | ESODEIFUN | ESO Control Center Facilities -IND. | | 0 | | | | | 0 | 0% | | 0 | | 0 | 0 | | |
| | TIN1473 | Kok HaynesInt Rpl WdStruc TDSIC | | | | | | | 0 | 0% | | 0 | | | 0 | 0% | |
| | TIN1539 | 13832 Insulator Rpl TDSIC | | | | | | | 0 | 0% | | 0 | | 0 | 0 | | |

**PETITIONER'S EXHIBIT 2-B (MDD)**
**IURC CAUSE NO. 44720 TDSIC-9**

**Detail by Functional Category - D-Sub, T-Line, T-Sub by Project**
**Cumulative Investments for Projects In-service by 12/31/20**

| | | | Capital | | | | | | | | O&M | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Actuals | | | Estimate | | | Variance | | Actuals | | | Estimate | Variance | | |
| Project Category | Funding Project | Funding Project Desc | Prior Project Recovery Value | Total TDSIC 9 Recovery[1] | Total Project Recovery Value | Filed TDSIC-8 Plan (In-Service Investments)[2] | Contingency and Under-Run Applied[3] | Filed TDSIC-8 Plan with Contingency and Under-Run Applied | Actual vs. Filed Plan Variance | % Variance | Prior Project Recovery Value | Total TDSIC 9 Recovery[1] | Total Project Recovery Value | Filed TDSIC-8 Plan (related to In-Service Investments)[1] | Actual vs. Filed TDSIC-8 Plan Variance | % Variance | Comments |
| | TIN1542 | BLM Rogers St XTR CB Rpl TDSIC | | 0 | | | | | 0 | 0% | 0 | 0 | 0 | 0 | 0 | | |
| | AMIN1056 | 6929 Static Repl TDSIC | | | | | | | | 0% | | 0 | | | 0 | 0% | |
| | AMIN1440 | Kokomo Apperson New Sub TDSIC | | 0 | | | | | 0 | 0% | | | | | | 0% | |
| | TIN1532 | 69154 Crwdvl_ChryGrv Stac TDSIC | | | | | | | 0 | 0% | | 0 | | | 0 | 0% | |
| | TIN1538 | 34540 IM Dead TDSIC | | | | | | | 0 | 0% | | 0 | | | 0 | 0% | |
| | TIN1756 | 34528 IM Dead End TDSIC | | | | | | | 0 | 0% | | 0 | | | 0 | 0% | |
| | TIN1530 | 69174 Shrpsvl_Kok SE Rbld TDSIC | | | | | | | 0 | 0% | | | | | 0 | 0% | |
| | TIN1529 | 69174 Shrpsvl_Wndfl Rbld TDSIC | | | | | | | 0 | 0% | | 0 | | | 0 | 0% | |
| | TIN1283 | 6952 Medora Browntwn Rbld TDSIC | | | | | | | 0 | 0% | | 0 | | | 0 | 0% | |
| | TIN2060 | 69180 Prtl Rbld Tipton-823-2016 | | | | | | | 0 | 0% | | | | | | 0% | |
| | AMIN1290 | Fairview 138 CB_Rel Rpl TDSIC | | 0 | | | | | 0 | 0% | | 0 | | | 0 | 0% | |
| | AMIN1314 | 69134 Rbld Adv_Dover REMC TDSIC | | | | | | | 0 | 0% | | 0 | | | 0 | 0% | |
| | TIN1046 | BLM Dunn St 69kv Bus Upg | | | | | | | 0 | 0% | | 0 | | | 0 | 0% | |
| | TIN1734 | Spencer 69KV Rlbty Upg TDSIC | | | | | | | 0 | 0% | | 0 | | | 0 | 0% | |
| | TIN1710 | 6933 Rbld Pt1 Gcst N-Mrtn TDSIC | | 0 | | | | | 0 | 0% | 0 | 0 | 0 | 0 | 0 | | |
| | TIN1475 | Loganspt Coplay 69kV Upg TDSIC | | | | | | | 0 | 0% | | | | | 0 | 0% | |
| | TIN1869 | 34531 IM Dead Strucs TDSIC | | | | | | | 0 | 0% | | 0 | | | 0 | 0% | |
| | TIN1528 | 6988 MdFrk_DeerCrJct Rbld TDSIC | | | | | | | | 0% | | 0 | | | 0 | 0% | |
| | AMIN1278 | 69153_NewPekin-Salem Rbld TDSIC | | | | | | | 0 | 0% | | | | | | 0% | |
| | TIN1861 | 69134 Rbld Jmstwn Mar_Adv TDSIC | | | | | | | 0 | 0% | | | | | 0 | 0% | |
| | TIN1533 | 6975 LewCr_Flt Rck Rpl Pl TDSIC | | | | | | | 0 | 0% | | | | | 0 | 0% | |
| | TIN1544 | Oakland City CB Rel Repl TDSIC | | | | | | | 0 | 0% | | 0 | | | 0 | 0% | |
| | TIN1862 | 69140 Rbld HE Rysvl-Ktwn TDSIC | | | | | | | 0 | 0% | | | | | 0 | 0% | |
| | AMIN1315 | Lake Holiday Jct Sw Rpl | | | | | | | | 0% | | 0 | | | 0 | 0% | |
| | TIN1505 | Darlington_Swi Repl TDSIC | | | | | | | 0 | 0% | | 0 | | | 0 | 0% | |
| | TIN1744 | Jeffvl Potter Rlbty Upg TDSIC | | | | | | | 0 | 0% | | 0 | | | 0 | 0% | |
| | TIN1863 | 69166 Rbld Grnfld Ftntown TDSIC | | | | | | | 0 | 0% | | | | | 0 | 0% | |
| | TIN1886 | 6952 HE Leesville Swi Rpl TDSIC | | | | | | | 0 | 0% | | 0 | | | 0 | 0% | |
| | TIN1841 | TH S Vigo Rlbty Upg TDSIC | | | | | | | 0 | 0% | 0 | 0 | | 0 | 0 | | |
| | TIN1281 | 6919 Hillnbrnd_Andersonvl TDSIC | | | | | | | | 0% | | | | | 0 | 0% | |
| | TIN1512 | Bedford 25TH_Gnd Swi Rpl TDSIC | | | | | | | 0 | 0% | | | | | 0 | 0% | |
| | TIN1745 | Middletown Jct Rlbty Upg TDSIC | | 0 | | | | | 0 | 0% | | 0 | | | 0 | 0% | |
| | TIN1729 | Cov-Muni IMPA Rlbty Upg TDSIC | | | | | | | 0 | 0% | | 0 | | | 0 | 0% | |
| | TIN1468 | Staunton Sub Rbld TDSIC | | | | | | | 0 | 0% | | | | | 0 | 0% | |
| | AMIN1214 | Flat Rock_5000kV XTR Repl TDSIC | | 0 | | | | | | 0% | 0 | 0 | | 0 | 0 | | |
| | TIN1546 | Whitesville South Rel Rpl TDSIC | | | | | | | | 0% | | 0 | | 0 | 0 | | |
| | AMIN1144 | Ptrbg In Pk 6963 Add Swi TDSIC | | 0 | | | | | 0 | 0% | | 0 | | | 0 | 0% | |
| | TIN1759 | Middletown Rlbty Upg TDSIC | | | | | | | 0 | 0% | | 0 | | 0 | 0 | | |
| | TIN1809 | Nashville Rlbty Upg TDSIC | | | | | | | 0 | 0% | | 0 | | 0 | 0 | | |
| | TIN1536 | 34511 IM Dead TDSIC | | | | | | | | 0% | | 0 | | | 0 | 0% | |
| | M170127 | 6919 Pt2 Rbld Andvl_Andvl Jct | | | | | | | | 0% | | 0 | | | 0 | 0% | |
| | TIN1543 | Danville CB Rel GndSw Rpl TDSIC | | | | | | | 0 | 0% | | 0 | | 0 | 0 | | |
| | TIN2117 | 6964 HE Wash Jct Swi Rpl TDSIC - TI | | | | | | | 0 | 0% | | 0 | | 0 | 0 | | |
| | TIN2090 | Lapel Rlbty Upg TDSIC | | | | | | | 0 | 0% | | 0 | | 0 | 0 | | |
| | TIN1534 | 6975 Flt Rck_Hope_Pole Rpl TDSIC | | | | | | | | -4% | | 0 | | | | 11% | |
| | TIN1840 | Seymour Rlbty Upg TDSIC | | | | | | | | -1% | | 0 | | 0 | 0 | | |
| | AMIN1189 | Lapel Jct Sw Rpl | | | | | | | | -20% | | 0 | | 0 | 0 | | variance less than |
| | TIN1833 | Greenwood North Rlbty Upg TDSIC | | | | | | | | 26% | | 0 | | 0 | 0 | | variance less than |
| | TIN1708 | 6930 Midway Swi Rpl TDSIC | | | | | | | | 3% | | 0 | | | | 100% | variance less than |
| | TIN1828 | Carmel 146th St Rlbty Upg TDSIC | | | | | | | | 54% | | 0 | | 0 | 0 | | variance less than |
| | TIN2115 | Cambridge City Rlbty Upg TDSIC | | | | | | | | -9% | | 0 | | 0 | 0 | | |
| | TIN1802 | Brazil Rlbty Upg TDSIC | | | | | | | | 10% | | | | | 0 | 0% | |
| | M180088 | 6920 Pt 3 Rbld Cnrsvl_Glenwood cont | | | | | | | | 0% | | | | | 0 | 0% | |
| | TIN2096 | BLM Strong Rd Rlbty Upg TDSIC | | | | | | | | 6% | | 0 | | 0 | 0 | | |
| | TIN2093 | BLM Dillman Rd Rlbty Upg TDSIC | | | | | | | | -6% | | 0 | | 0 | 0 | | |
| | TIN2113 | Brkvl LittleCdr Rlbty Upg TDSIC con | | | | | | | | 1% | | 0 | | 0 | 0 | | |
| | TIN2118 | 69170 Pt1 Rbld McGrawsvil TDSIC | | | | | | | | 5% | | 0 | | 0 | 0 | | |
| | TIN2067 | Seymour Airport Rlbty Upg TDSIC | | | | | | | | 3% | | 0 | | 0 | 0 | | |
| | TIN2087 | Fishers Rlbty Upg TDSIC | | | | | | | | 6% | | 0 | | 0 | 0 | | |
| | TIN2073 | Cayuga 69kV Rlbty Upg TDSIC | | | | | | | | 5% | | 0 | | 0 | 0 | | |
| | TIN2082 | Delphi Wells St Rel Rpl TDSIC | | | | | | | | -5% | | | | | | -3% | |
| | TIN2065 | Columbus South Rlbty Upg TDSIC - TI | | | | | | | | -4% | | 0 | | 0 | 0 | | |
| | TIN2084 | Thorntown Rlbty Upg TDSIC - TIN2084 | | | | | | | | 12% | | 0 | | 0 | 0 | | |
| | M180062 | | | | | | | | | -19% | | 0 | | | | 100% | variance less than |

**PETITIONER'S EXHIBIT 2-B (MDD)**
**IURC CAUSE NO. 44720 TDSIC-9**

**Detail by Functional Category - D-Sub, T-Line, T-Sub by Project**
**Cumulative Investments for Projects In-service by 12/31/20**

| | | | Capital | | | | | | | | O&M | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Actuals | | | Estimate | | | Variance | | Actuals | | | Estimate | Variance | | |
| Project Category | Funding Project | Funding Project Desc | Prior Project Recovery Value | Total TDSIC 9 Recovery[1] | Total Project Recovery Value | Filed TDSIC-8 Plan (In-Service Investments)[2] | Contingency and Under-Run Applied[3] | Filed TDSIC-8 Plan with Contingency and Under-Run Applied | Actual vs. Filed Plan Variance | % Variance | Prior Project Recovery Value | Total TDSIC 9 Recovery[1] | Total Project Recovery Value | Filed TDSIC-8 Plan (related to In-Service Investments)[1] | Actual vs. Filed TDSIC-8 Plan Variance | % Variance | Comments |
| | TIN1834 | Laf Concord Rlbty Upg TDSIC | | [redacted] | [redacted] | [redacted] | | [redacted] | [redacted] | 21% | | 0 | | [redacted] | [redacted] | 100% | variance less than [redacted] |
| | TIN2066 | N Vernon West Rlbty Upg TDSIC - TIN | | [redacted] | [redacted] | [redacted] | | [redacted] | [redacted] | 20% | | 0 | | 0 | 0 | | |
| | TIN2075 | Allendale Rlbty Upg TDSIC - TIN2075 | | [redacted] | [redacted] | [redacted] | | [redacted] | [redacted] | -20% | | 0 | | [redacted] | [redacted] | 100% | variance less than [redacted] |
| | TIN2095 | Odon Rlbty Upg TDSIC - TIN2095 | | [redacted] | [redacted] | [redacted] | | [redacted] | [redacted] | -20% | | 0 | | 0 | 0 | | variance less than [redacted] |
| | M180321 | Dudleytown Jct Instl RTU | | [redacted] | [redacted] | | | [redacted] | [redacted] | 40% | | 0 | | | 0 | | variance less than [redacted] |
| | PRTIN-A | Various Lines - Project # PRTIN-A - GLT Pole Repl | [redacted] | [redacted] | [redacted] | [redacted] | | [redacted] | [redacted] | 0% | [redacted] | [redacted] | [redacted] | [redacted] | [redacted] | 0% | |
| | PRTIN-B | Various Lines - Project # PRTIN-B - GLT Pole Repl | [redacted] | [redacted] | [redacted] | [redacted] | | [redacted] | 0 | 0% | [redacted] | 0 | [redacted] | [redacted] | 0 | 0% | |
| | PRTIN-C | Various Lines - Project # PRTIN-C - GLT Pole Repl | [redacted] | [redacted] | [redacted] | [redacted] | | [redacted] | [redacted] | 0% | [redacted] | [redacted] | [redacted] | [redacted] | 0 | 0% | |
| | PRTIN-D | Various Lines - Project # PRTIN-D - GLT Pole Repl | [redacted] | [redacted] | [redacted] | [redacted] | | [redacted] | [redacted] | 0% | [redacted] | [redacted] | [redacted] | [redacted] | 0 | 0% | |
| | PRTIN-E | Various Lines - Project # PRTIN-E - GLT Pole Repla | 0 | [redacted] | [redacted] | [redacted] | | [redacted] | [redacted] | -5% | [redacted] | [redacted] | [redacted] | [redacted] | [redacted] | 22% | The estimate was [redacted] per pole for T-FERC GLT O&M activities including vegetation of existing right of way and asset transfer of transmission assets from existing wood to new steel pole. Actual charges were [redacted] per pole once work was completed. |
| **Transmission System Line Improvements Total** | | | **184,091,527** | **34,333,387** | **218,424,914** | **217,698,524** | **13,577** | **217,712,100** | **-712,813** | **0%** | **9,607,572** | **1,202,164** | **10,809,736** | **11,083,568** | **273,832** | **2%** | |
| Transmission System Substation Improvements | AMIN1152 | Kok Hi Pk 230k CB_Rel Rpl TDSIC | [redacted] | 0 | [redacted] | [redacted] | | [redacted] | 0 | 0% | 0 | 0 | | 0 | 0 | | |
| | AMIN1211 | Batesvl 345 138kV TrfSwi Rpl TDSIC | [redacted] | 0 | [redacted] | [redacted] | | [redacted] | 0 | 0% | [redacted] | 0 | [redacted] | [redacted] | 0 | 0% | |
| | AMIN1215 | Crane Metr_Repl 69kV Pots TDSIC | [redacted] | 0 | [redacted] | [redacted] | | [redacted] | 0 | 0% | 0 | 0 | | 0 | 0 | | |
| | AMIN1296 | New Castle Rel Repl TDSIC | [redacted] | 0 | [redacted] | [redacted] | | [redacted] | 0 | 0% | 0 | 0 | | 0 | 0 | | |
| | GLPRTFA | Pole Repl Gnd Line-T | [redacted] | 0 | [redacted] | [redacted] | | [redacted] | [redacted] | 43% | [redacted] | 0 | [redacted] | [redacted] | [redacted] | 77% | variance less than [redacted] |
| | AMIN1300 | Mitchell Lost River Rel Repl TDSIC | [redacted] | 0 | [redacted] | [redacted] | | [redacted] | 0 | 0% | 0 | 0 | | 0 | 0 | | |
| | AMIN0464 | Wabash River 138KV Gen Sta. Phase I | [redacted] | 0 | [redacted] | [redacted] | | [redacted] | 0 | 0% | 0 | 0 | | 0 | 0 | | |
| | AMIN1124 | Greentown_765kV Spare XTR TDSIC | [redacted] | 0 | [redacted] | [redacted] | | [redacted] | 0 | 0% | 0 | 0 | | 0 | 0 | | |
| | AMIN1191 | Frankfort Westside Sw Rpl TDSIC | [redacted] | [redacted] | [redacted] | [redacted] | | [redacted] | 0 | 0% | [redacted] | 0 | [redacted] | [redacted] | 0 | 0% | |
| | ESODEIFUN | ESO Control Center Facilities -IND. | [redacted] | 0 | [redacted] | [redacted] | | [redacted] | 0 | 0% | [redacted] | 0 | [redacted] | 0 | 0 | | |
| | AMIN1236 | Spelterville SS Tap Swi Rpl TDSIC | [redacted] | 0 | [redacted] | [redacted] | | [redacted] | 0 | 0% | [redacted] | 0 | [redacted] | [redacted] | 0 | 0% | |
| | TIN1473 | Kok HaynesInt Rpl WdStruc TDSIC | [redacted] | [redacted] | [redacted] | [redacted] | | [redacted] | 0 | 0% | [redacted] | 0 | [redacted] | 0 | 0 | | |
| | AMIN1110 | Cayuga GenSta 345kV CBRepl TDSIC | [redacted] | 0 | [redacted] | [redacted] | | [redacted] | 0 | 0% | [redacted] | 0 | [redacted] | [redacted] | [redacted] | 100% | removed [redacted] from updated file |
| | AMIN0913 | Cayuga CT Swyd REL MDAR Repl TDSIC | [redacted] | 0 | [redacted] | [redacted] | | [redacted] | 0 | 0% | [redacted] | 0 | [redacted] | 0 | 0 | | |
| | TIN1406 | Walton 69kV CB Repl TDSIC | [redacted] | [redacted] | [redacted] | [redacted] | | [redacted] | 0 | 0% | [redacted] | 0 | [redacted] | 0 | 0 | | |
| | AMIN1440 | Kokomo Apperson New Sub TDSIC | [redacted] | [redacted] | [redacted] | [redacted] | | [redacted] | 0 | 0% | 0 | 0 | 0 | 0 | 0 | | |
| | TIN1532 | 69154 Crwdvl_ChryGrv Stac TDSIC | [redacted] | 0 | [redacted] | [redacted] | | [redacted] | 0 | 0% | [redacted] | 0 | [redacted] | 0 | 0 | | |
| | TIN1756 | 34528 IM Dead End TDSIC | [redacted] | 0 | [redacted] | [redacted] | | [redacted] | 0 | 0% | [redacted] | 0 | [redacted] | 0 | 0 | | |
| | AMIN1193 | Whitfield 34.5kV CB-Rel Repl TDSIC | [redacted] | 0 | [redacted] | [redacted] | | [redacted] | 0 | 0% | [redacted] | 0 | [redacted] | 0 | 0 | | |
| | AMIN1192 | Seymour 138KV LTC Repl TDSIC | [redacted] | 0 | [redacted] | [redacted] | | [redacted] | 0 | 0% | [redacted] | 0 | [redacted] | 0 | 0 | | |
| | TPEQUIPIN | Indiana Trans Equip Failure | [redacted] | 0 | [redacted] | [redacted] | | [redacted] | 0 | 0% | [redacted] | 0 | [redacted] | [redacted] | 0 | 0% | |
| | TIN1529 | 69174 Shrpsvl_Wndfl Rbld TDSIC | [redacted] | [redacted] | [redacted] | [redacted] | | [redacted] | 0 | 0% | [redacted] | 0 | [redacted] | 0 | 0 | | |
| | TIN1476 | Kok Chrys So Upg Sub TDSIC | [redacted] | [redacted] | [redacted] | [redacted] | | [redacted] | 0 | 0% | [redacted] | 0 | [redacted] | 0 | 0 | | |
| | AMIN1290 | Fairview 138 CB_Rel Rpl TDSIC | [redacted] | [redacted] | [redacted] | [redacted] | | [redacted] | 0 | 0% | [redacted] | 0 | [redacted] | [redacted] | 0 | 0% | |
| | TIN1403 | LAF 69kV Rpl Rel - OCB TDSIC | [redacted] | [redacted] | [redacted] | [redacted] | | [redacted] | 0 | 0% | [redacted] | 0 | [redacted] | [redacted] | 0 | 0% | |
| | AMIN1298 | Shbyv Southwest Rel Repl TDSIC | [redacted] | [redacted] | [redacted] | [redacted] | | [redacted] | 0 | 0% | [redacted] | 0 | [redacted] | 0 | 0 | | |
| | TIN1046 | BLM Dunn St 69kv Bus Upg | [redacted] | [redacted] | [redacted] | [redacted] | | [redacted] | 0 | 0% | [redacted] | [redacted] | [redacted] | [redacted] | 0 | 0% | |
| | AMIN1330 | Bean Blossom_RTU Rpl TDSIC | [redacted] | [redacted] | [redacted] | [redacted] | | [redacted] | 0 | 0% | [redacted] | 0 | [redacted] | 0 | 0 | | |
| | TIN1750 | Plainfld South Rlbty Upg TDSIC | [redacted] | [redacted] | [redacted] | [redacted] | | [redacted] | 0 | 0% | [redacted] | 0 | [redacted] | 0 | 0 | | |
| | TIN1734 | Spencer 69KV Rlbty Upg TDSIC | [redacted] | [redacted] | [redacted] | [redacted] | | [redacted] | 0 | 0% | [redacted] | 0 | [redacted] | 0 | 0 | | |
| | TIN1475 | Loganspt Coplay 69kV Upg TDSIC | [redacted] | [redacted] | [redacted] | [redacted] | | [redacted] | 0 | 0% | [redacted] | 0 | [redacted] | 0 | 0 | | |
| | TIN1469 | Bedford345_XTR CB Rel Rpl TDSIC | [redacted] | [redacted] | [redacted] | [redacted] | | [redacted] | [redacted] | 0% | [redacted] | 0 | [redacted] | [redacted] | 0 | 0% | |
| | TIN1751 | Rossville Rlbty Upg TDSIC | [redacted] | [redacted] | [redacted] | [redacted] | | [redacted] | 0 | 0% | [redacted] | 0 | [redacted] | 0 | 0 | | |
| | AMIN1055 | Noblesville - Tipton Reco TDSIC | [redacted] | 0 | [redacted] | [redacted] | | [redacted] | 0 | 0% | [redacted] | 0 | [redacted] | 0 | 0 | | |
| | AMIN0766 | Gallagher P_C Relo TDSIC | [redacted] | [redacted] | [redacted] | [redacted] | | [redacted] | 0 | 0% | [redacted] | 0 | [redacted] | [redacted] | 0 | 0% | |
| | TIN1732 | Jeffl KY Ave Rlbty Upg TDSIC | [redacted] | [redacted] | [redacted] | [redacted] | | [redacted] | 0 | 0% | [redacted] | 0 | [redacted] | 0 | 0 | | |
| | TIN1544 | Oakland City CB Rel Repl TDSIC | [redacted] | [redacted] | [redacted] | [redacted] | | [redacted] | 0 | 0% | [redacted] | 0 | [redacted] | 0 | 0 | | |
| | TIN1814 | Sellersburg Rlbty Upg TDSIC | [redacted] | [redacted] | [redacted] | [redacted] | | [redacted] | 0 | 0% | [redacted] | 0 | [redacted] | 0 | 0 | | |
| | TIN1813 | Plainfield 69 Rlbty Upg TDSIC | [redacted] | [redacted] | [redacted] | [redacted] | | [redacted] | 0 | 0% | [redacted] | 0 | [redacted] | 0 | 0 | | |
| | TIN1811 | New Palestine Rlbty Upg TDSIC | [redacted] | [redacted] | [redacted] | [redacted] | | [redacted] | 0 | 0% | [redacted] | 0 | [redacted] | 0 | 0 | | |
| | AMIN1040 | Franklin Forsythe St MDAR Repl | [redacted] | [redacted] | [redacted] | [redacted] | | [redacted] | 0 | 0% | [redacted] | 0 | [redacted] | 0 | 0 | | |
| | TIN1752 | Sullivan Rlbty Upg TDSIC | [redacted] | [redacted] | [redacted] | [redacted] | | [redacted] | 0 | 0% | [redacted] | 0 | [redacted] | 0 | 0 | | |
| | AMIN1205 | Gwynvill_GCB 34523-22 Rpl TDSIC | [redacted] | [redacted] | [redacted] | [redacted] | | [redacted] | 0 | 0% | [redacted] | 0 | [redacted] | 0 | 0 | | |
| | TIN1389 | Gwynneville LTC Repl | [redacted] | [redacted] | [redacted] | [redacted] | | [redacted] | 0 | 0% | [redacted] | 0 | [redacted] | 0 | 0 | | |
| | TIN1835 | Laf south Rlbty Upg TDSIC | [redacted] | [redacted] | [redacted] | [redacted] | | [redacted] | 0 | 0% | [redacted] | 0 | [redacted] | 0 | 0 | | |
| | TIN1804 | Grnwd ValleVsta Rlbty Upg TDSIC | [redacted] | [redacted] | [redacted] | [redacted] | | [redacted] | 0 | 0% | [redacted] | 0 | [redacted] | 0 | 0 | | |
| | TIN1841 | TH S Vigo Rlbty Upg TDSIC | [redacted] | [redacted] | [redacted] | [redacted] | | [redacted] | 0 | 0% | [redacted] | 0 | [redacted] | 0 | 0 | | |
| | AMIN1292 | Kokm Hi Pk 69kV CB_Rel Rpl TDSIC | [redacted] | [redacted] | [redacted] | [redacted] | | [redacted] | 0 | 0% | [redacted] | 0 | [redacted] | 0 | 0 | | |
| | TIN1745 | Middletown Jct Rlbty Upg TDSIC | [redacted] | 0 | [redacted] | [redacted] | | [redacted] | 0 | 0% | [redacted] | 0 | [redacted] | 0 | 0 | | |

**PETITIONER'S EXHIBIT 2-B (MDD)**
**IURC CAUSE NO. 44720 TDSIC-9**

**Detail by Functional Category - D-Sub, T-Line, T-Sub by Project**
**Cumulative Investments for Projects In-service by 12/31/20**

| | | | Capital | | | | | | | | O&M | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Actuals | | | Estimate | | | Variance | | Actuals | | | Estimate | Variance | | |
| Project Category | Funding Project | Funding Project Desc | Prior Project Recovery Value | Total TDSIC 9 Recovery[1] | Total Project Recovery Value | Filed TDSIC-8 Plan (In-Service Investments)[2] | Contingency and Under-Run Applied[3] | Filed TDSIC-8 Plan with Contingency and Under-Run Applied | Actual vs. Filed Plan Variance | % Variance | Prior Project Recovery Value | Total TDSIC 9 Recovery[1] | Total Project Recovery Value | Filed TDSIC-8 Plan (related to In-Service Investments)[1] | Actual vs. Filed TDSIC-8 Plan Variance | % Variance | Comments |
| | TIN1749 | Petersburg Rlbty Upg TDSIC | | | | | | | 0 | 0% | | 0 | | 0 | 0 | | |
| | TIN1728 | Columbus E25th Rlbty Upg TDSIC | | | | | | | 0 | 0% | | 0 | | 0 | 0 | | |
| | TIN1812 | N Manchester Rlbty Upg TDSIC | | | | | | | 0 | 0% | | 0 | | 0 | 0 | | |
| | AMIN1214 | Flat Rock_5000kV XTR Repl TDSIC | | | | | | | 0 | 0% | | 0 | | 0 | 0 | | |
| | AMIN1206 | Gwynvill GCB 345B1-15 TDSIC | | | | | | | | 0% | | 0 | | 0 | 0 | | |
| | AMIN1151 | Laf 230_Rpl 138 OCBRelay TDSIC | | | | | | | 0 | 0% | | 0 | | 0 | 0 | | |
| | AMIN1741 | Gallagher Gen Rlbty Upg TDSIC | | | | | | | 0 | 0% | | 0 | | 0 | 0 | | |
| | AMIN1233 | NA_138kV Sub Svc Upg TDISC | | 0 | | | | | 0 | 0% | | 0 | | 0 | 0 | | |
| | TIN1826 | Bloomfield Rlbty Upg TDSIC | | 0 | | | | | 0 | 0% | | 0 | | | 0 | 0% | |
| | TIN1836 | Madison-Mich Rd Rlbty Upg TDSIC | | 0 | | | | | 0 | 0% | | 0 | | 0 | 0 | | |
| | TIN1801 | Batesvl Hilbrnd Rlbty Upg TDSIC | | | | | | | | 0% | | 0 | | 0 | 0 | | |
| | AMIN0744 | TINFive Points Sta Upgr Ph I TDSIC | | | | | | | | 0% | | 0 | | 0 | 0 | | |
| | TIN1534 | 6975 Flt Rck_Hope_Pole Rpl TDSIC | | | | | | | 0 | 0% | | 0 | | 0 | 0 | | |
| | TIN1840 | Seymour Rlbty Upg TDSIC | | | | | | | | 7% | | 0 | | 0 | 0 | | |
| | TIN1803 | Brownstown Rlbty Upg TDSIC | | | | | | | 0 | 0% | | 0 | | 0 | 0 | | |
| | AMIN1335 | Greenwood West_RTU Rpl TDSIC | | | | | | | | 0% | | 0 | | 0 | 0 | | |
| | TIN1833 | Greenwood North Rlbty Upg TDSIC | | | | | | | | 15% | | 0 | | 0 | 0 | | |
| | TIN1777 | Westfield Rlbty Upg TDSIC | | | | | | | 0 | 0% | | 0 | | 0 | 0 | | |
| | AMIN1408 | Jeffvl 138_CB Rel Repl TDSIC | | | | | | | 0 | 0% | | 0 | | 0 | 0 | | |
| | TIN1823 | West Lafayette Rlbty Upg TDSIC | | | | | | | | 6% | | 0 | | 0 | 0 | | |
| | TIN1802 | Brazil Rlbty Upg TDSIC | | | | | | | | 0% | | 0 | | 0 | 0 | | |
| | TIN2063 | Wilmington Rel Rpl TDSIC | | | | | | | | -1% | | 0 | | 0 | 0 | | |
| | TIN2076 | TH Margaret Ave Rlbty Upg TDSIC | | | | | | | 0 | 0% | | 0 | | 0 | 0 | | |
| | TIN2092 | BLM 230 Rel Rpl TDSIC | | | | | | | | -1% | | 0 | | 0 | 0 | | |
| | TIN2089 | Russiaville Rlbty Upg TDSIC | | | | | | | | 2% | | 0 | | 0 | 0 | | |
| | TIN2067 | Seymour Airport Rlbty Upg TDSIC | | | | | | | | 2% | | 0 | | 0 | 0 | | |
| | TIN1807 | Kok Toby Pike Rlbty Upg TDSIC | | | | | | | | 27% | | 0 | | 0 | 0 | | variance less than |
| | AMIN1391 | Clarksville LTC Repl TDSIC | | | | | | | | 21% | | 0 | | 0 | 0 | | variance less than |
| | TIN2082 | Delphi Wells St Rel Rpl TDSIC | | | | | | | | 7% | | 0 | | 0 | 0 | | |
| | TIN2065 | Columbus South Rlbty Upg TDSIC - TI | | | | | | | | 1% | | 0 | | 0 | 0 | | |
| | TIN2112 | Spiceland Rlbty Upg TDSIC | | | | | | | | -6% | | 0 | | 0 | 0 | | |
| | AMIN1291 | NC 138kV CB Rel Repl TDSIC | | | | | | | | -4% | | 0 | | 0 | 0 | | |
| | AMIN1297 | Pittsboro Rel Repl TDSIC | | | | | | | | -7% | | 0 | | 0 | 0 | | |
| | M180062 | Connersvil 12th RlbtyUpgTDSIC | | | | | | | | 27% | | 0 | | 0 | 0 | | Labor decrease of proportional amount of reduction in indirects of . Due to work schedule optimization the not all estimated labor were needed to complete the work causing a reduction in the overall labor costs and associated indirects. |
| | TIN1805 | Hagerstown Rlbty Upg TDSIC | | | | | | | | 7% | | | | 0 | | | |
| | TIN1834 | Laf Concord Rlbty Upg TDSIC | | | | | | | | -11% | | 0 | | 0 | 0 | | |
| | TIN2064 | Col Michigan CB_Rel Rpl TDSIC - TIN | | | | | | | | -13% | | 0 | | 0 | 0 | | |
| | TIN2075 | Allendale Rlbty Upg TDSIC - TIN2075 | | | | | | | | -10% | | 0 | | 0 | 0 | | |
| | TIN1839 | Princeton Rlbty Upg TDSIC | | | | | | | | 2% | | 0 | | 0 | 0 | | |
| | M180321 | Dudleytown Jct Instl RTU | | | | | | | | 0% | | 0 | | 0 | 0 | | |
| **Transmission System Substation Improvements Total** | | | **99,066,925** | **34,111,541** | **133,178,466** | **134,283,415** | **0** | **134,283,415** | **1,104,949** | **1%** | **443,405** | **2,721** | **446,126** | **447,503** | **1,377** | **0%** | |

1. Includes 2016-2017 In Service Project Carryforward values
2. Only includes projects from TDSIC-5 Plan that did go into service through 2018 and excludes Contingency.
3. Contingency and Under-Run applied to capital Actuals exceeding the Approved TDSIC-5 Plan by more than 20%; application of Contingency and Under-Run bring variance to 20%. Contingency and Under-Run applied at the Filing Project level.

## VERIFICATION

I hereby verify under the penalties of perjury that the foregoing representations are true to the best of my knowledge, information and belief.

Signed: _____ Dated: April 28, 2021

Martin D. Dickey