

DIRECT TESTIMONY OF CICELY M. HART VICE PRESIDENT – CUSTOMER DELIVERY REGION SUPPORT DUKE ENERGY BUSINESS SERVICES, LLC ON BEHALF OF DUKE ENERGY INDIANA, LLC CAUSE NO. 44720 TDSIC-9 BEFORE THE INDIANA UTILITY REGULATORY COMMISSION

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1		I. <u>INTRODUCTION</u>
2	Q.	PLEASE STATE YOUR NAME AND CURRENT BUSINESS ADDRESS.
3	А.	My name is Cicely M. Hart, and my business address is 1000 East Main Street,
4		Plainfield, Indiana.
5	Q.	BY WHOM ARE YOU EMPLOYED AND IN WHAT CAPACITY?
6	A.	I am employed as Vice President – Customer Delivery Region Support by Duke
7		Energy Business Services, LLC, a service company subsidiary of Duke Energy
8		Corporation, and a non-utility affiliate of Duke Energy Indiana, LLC ("Duke
9		Energy Indiana" or "Company").
10	Q.	PLEASE BRIEFLY DESCRIBE YOUR EDUCATIONAL AND
11		PROFESSIONAL BACKGROUND.
12	A.	I received a Bachelor of Science Degree in Electrical Engineering from Purdue
13		University and a Master's Degree in Business Administration from Indiana
14		Wesleyan University. I began my career at Cinergy Corp. as a System Protection
15		Engineer in 2001 and have held a variety of positions of increasing responsibility
16		across Duke Energy in the areas of transmission and distribution engineering. I
17		was appointed Midwest Vice President for Customer Delivery Engineering in

CICELY M. HART - 1 -

1		March 2018 and currently lead the Region Support organization. I am a
2		registered Professional Engineer in both Indiana and Ohio.
3	Q.	PLEASE BRIEFLY DESCRIBE YOUR DUTIES AND
4		RESPONSIBILITIES AS VICE PRESIDENT – CUSTOMER DELIVERY
5		REGION SUPPORT.
6	A.	My current team's responsibilities include distribution engineering and, for
7		subdivision and complex customer projects, geospatial information systems for
8		customer and reliability projects in Duke Energy's Midwest service territory. My
9		team designs projects in compliance with state and federal requirements,
10		including corporate standards, work methods and safe work practices. I am also
11		accountable for reliability improvement metrics and project management.
12	Q.	WHAT IS THE PURPOSE OF YOUR TESTIMONY IN THIS
13		PROCEEDING?
14	A.	My testimony will (1) provide an overall update on Duke Energy Indiana's
15		request for relief in this proceeding, including a summary of the overall request
16		for recovery; (2) confirm that Duke Energy Indiana's requests in this proceeding
17		are in compliance with the TDSIC statute; and (3) provide information related to
18		the in-service investment for the Distribution System Circuit Improvements
19		portion of the Transmission and Distribution Infrastructure Improvement Plan
20		("T&D Plan").
21	II.	OVERVIEW AND ADDITIONAL BACKGROUND INFORMATION
22	Q.	DOES THIS FILING COMPLY WITH THE TDSIC STATUTE?

1	А.	Yes. In Cause No. 44720, the Commission approved Duke Energy Indiana's 7-
2		year T&D Plan under Indiana Code § 8-1-39-10 ("Section 10") and cost recovery
3		pursuant to Indiana Code § 8-1-39-9 ("Section 9"). In this proceeding, Duke
4		Energy Indiana is seeking cost recovery pursuant to Section 9 using the rate
5		recovery mechanism approved by the Commission in Cause No. 44720 and the
6		recent retail rate case in Cause No. 45253.
7	Q.	ARE YOU AWARE OF ANY AMENDMENTS TO THE TDSIC
8		STATUTE?
9	А.	Yes. The TDSIC statute was amended during the 2019 legislative session, via
10		House Bill 1470, to allow a utility to add new projects in its Section 9 plan update
11		filings and to include projects that are based on planning criteria and inspections,
12		as well as other changes. House Bill 1470 was signed by Governor Holcomb on
13		April 24, 2019.
14	Q.	DO YOU BELIEVE THESE CHANGES IMPACT THE COST
15		RECOVERY SOUGHT IN THIS PROCEEDING?
16	А.	Not directly. Duke Energy Indiana believes all of its currently approved TDSIC
17		projects were appropriately within the TDSIC statute. However, the amendment
18		makes it more explicit that programs such as our Ground Line Treatment/Pole
19		Replacement programs are appropriately included.
20	Q.	PLEASE PROVIDE A HIGH-LEVEL OVERVIEW OF THE TESTIMONY
21		BEING PRESENTED IN THIS PROCEEDING.

IURC CAUSE NO. 44720 TDSIC-9 DIRECT TESTIMONY OF CICELY M. HART FILED APRIL 28, 2021

- 1	А.	My testimony provides an overview of the updated cost Duke Energy Indiana is
2		requesting for recovery associated with the T&D projects placed in-service by the
3		end of calendar year 2020. I will also provide support and detail regarding the
4		scope, engineering, capital costs, and operation and maintenance ("O&M") costs
5		of the Distribution System Circuit Improvement portion of the T&D Plan placed
6		in-service during 2020. Petitioner's witness Mr. Martin D. Dickey will provide
7		similar support and detail regarding the Distribution Substation, Transmission
8		Substation, and Transmission Line portions of the T&D Plan. The testimony of
9		Petitioner's witness Ms. Maria T. Diaz will explain the ratemaking used and
10		sponsor new rates using actual costs for projects in-service by the end of 2020 and
11		forecasted costs from the Company's T&D Plan as filed in Cause No. 44720
12		TDSIC-8 ("TDSIC-8") and pending before the Commission.
13	Q.	DO YOU HAVE ANY PRELIMINARY ITEMS YOU'D LIKE TO
14		ADDRESS ABOUT THE COMPANY'S EXHIBITS?
15	А.	Yes. Similar to past testimony, many of the exhibits are organized by FERC
16		account. FERC accounts are important for the Company's T&D plan because
17		there are different ratemaking impacts based on whether costs are charged to a
18		Distribution function FERC account or a Transmission function FERC account,
19		so many of our exhibits will present totals for each FERC function.
20	Q.	DURING 2020 WERE YOU DIRECTLY RESPONSIBLE FOR THE
21		DISTRIBUTION SYSTEM CIRCUIT IMPROVEMENT PORTION OF
22		THE T&D PLAN?

1	А.	Yes. I had leadership responsibility for the Distribution System Circuit
2		Improvement portion of the T&D Plan except for the distribution system circuit
3		under-build which is physically attached to our Transmission infrastructure.
4		These projects align with the Transmission business responsibilities, thus are
5		managed by our Transmission team led by Mr. Martin D. Dickey. Although my
6		team has personal responsibility for the Distribution System Circuit Improvement
7		portion of the T&D Plan, I am also providing our policy testimony regarding the
8		entirety of the T&D Plan. Mr. Dickey has management responsibility for the
9		Distribution Substation, Transmission Substation, and Transmission Line portions
10		of the T&D Plan, and he will provide detailed testimony on those portions of the
11		T&D Plan.
12	Q.	CAN YOU PROVIDE A HIGH-LEVEL OVERVIEW OF THE
12 13	Q.	CAN YOU PROVIDE A HIGH-LEVEL OVERVIEW OF THE COMPANY'S PERFORMANCE ON THE TDSIC PROGRAM FOR 2020?
12 13 14	Q. A.	CAN YOU PROVIDE A HIGH-LEVEL OVERVIEW OF THE COMPANY'S PERFORMANCE ON THE TDSIC PROGRAM FOR 2020? Yes. After the first five years of the T&D Plan execution, Duke Energy Indiana is
12 13 14 15	Q. A.	CAN YOU PROVIDE A HIGH-LEVEL OVERVIEW OF THE COMPANY'S PERFORMANCE ON THE TDSIC PROGRAM FOR 2020? Yes. After the first five years of the T&D Plan execution, Duke Energy Indiana is on track to deliver the customer value proposed, with the completed
12 13 14 15 16	Q. A.	CAN YOU PROVIDE A HIGH-LEVEL OVERVIEW OF THE COMPANY'S PERFORMANCE ON THE TDSIC PROGRAM FOR 2020? Yes. After the first five years of the T&D Plan execution, Duke Energy Indiana is on track to deliver the customer value proposed, with the completed improvements, at the cost approved by the Commission and as agreed to in the
12 13 14 15 16 17	Q. A.	CAN YOU PROVIDE A HIGH-LEVEL OVERVIEW OF THE COMPANY'S PERFORMANCE ON THE TDSIC PROGRAM FOR 2020? Yes. After the first five years of the T&D Plan execution, Duke Energy Indiana is on track to deliver the customer value proposed, with the completed improvements, at the cost approved by the Commission and as agreed to in the Cause No. 44720 Settlement Agreement ("TDSIC Settlement"). As of
12 13 14 15 16 17 18	Q. A.	CAN YOU PROVIDE A HIGH-LEVEL OVERVIEW OF THE COMPANY'S PERFORMANCE ON THE TDSIC PROGRAM FOR 2020? Yes. After the first five years of the T&D Plan execution, Duke Energy Indiana is on track to deliver the customer value proposed, with the completed improvements, at the cost approved by the Commission and as agreed to in the Cause No. 44720 Settlement Agreement ("TDSIC Settlement"). As of December 31, 2020, for all T&D projects placed in-service during 2020, actual
12 13 14 15 16 17 18 19	Q. A.	CAN YOU PROVIDE A HIGH-LEVEL OVERVIEW OF THE COMPANY'S PERFORMANCE ON THE TDSIC PROGRAM FOR 2020? Yes. After the first five years of the T&D Plan execution, Duke Energy Indiana is on track to deliver the customer value proposed, with the completed improvements, at the cost approved by the Commission and as agreed to in the Cause No. 44720 Settlement Agreement ("TDSIC Settlement"). As of December 31, 2020, for all T&D projects placed in-service during 2020, actual capital costs incurred for the entire T&D Plan were approximately 5% lower than
12 13 14 15 16 17 18 19 20	Q. A.	CAN YOU PROVIDE A HIGH-LEVEL OVERVIEW OF THE COMPANY'S PERFORMANCE ON THE TDSIC PROGRAM FOR 2020? Yes. After the first five years of the T&D Plan execution, Duke Energy Indiana is on track to deliver the customer value proposed, with the completed improvements, at the cost approved by the Commission and as agreed to in the Cause No. 44720 Settlement Agreement ("TDSIC Settlement"). As of December 31, 2020, for all T&D projects placed in-service during 2020, actual capital costs incurred for the entire T&D Plan were approximately 5% lower than estimated in our TDSIC-8 Plan, including use of contingency and under-run.
12 13 14 15 16 17 18 19 20 21	Q. A.	CAN YOU PROVIDE A HIGH-LEVEL OVERVIEW OF THE COMPANY'S PERFORMANCE ON THE TDSIC PROGRAM FOR 2020? Yes. After the first five years of the T&D Plan execution, Duke Energy Indiana is on track to deliver the customer value proposed, with the completed improvements, at the cost approved by the Commission and as agreed to in the Cause No. 44720 Settlement Agreement ("TDSIC Settlement"). As of December 31, 2020, for all T&D projects placed in-service during 2020, actual capital costs incurred for the entire T&D Plan were approximately 5% lower than estimated in our TDSIC-8 Plan, including use of contingency and under-run.

CICELY M. HART - 5 -

1	Q.	ARE EACH OF THE PROJECTS IDENTIFIED IN YOUR T&D PLAN
2		ELIGIBLE PROJECTS UNDER INDIANA CODE § 8-1-39-2?
3	А.	Yes. Each of the projects undertaken has been for the purpose of safety,
4		reliability, or system modernization. The projects being implemented are per the
5		plan approved by the Commission and as previously confirmed to meet the
6		requirements of Indiana Code § 8-1-39-2.
7	Q.	ARE ANY OF THE PROJECTS ALREADY IN DUKE ENERGY
8		INDIANA'S RATE BASE?
9	А.	Yes, the T&D plan improvements completed as of the end of 2020 were included
10		in Duke Energy Indiana's rate base with the recent retail rate case in Cause No.
11		45253. The pre-filed direct testimony of Maria T. Diaz discusses Rider 65
12		ratemaking and the recent retail rate case wherein the in-service T&D plan
13		projects were moved into base rates.
14	Q.	ARE ANY PROJECTS DUPLICATED WITHIN THE TRANSMISSION
15		AND DISTRIBUTION PLAN?
16	A.	No. Each project is unique within the T&D Plan and there are no duplicates.
17	Q.	CAN YOU COMMENT BRIEFLY ON THE CADENCE OF DUKE
18		ENERGY INDIANA'S TDSIC RECOVERY FILINGS?
19	А.	Yes. In this filing, Duke Energy Indiana is submitting its request for rate recovery
20		associated with the costs that continue to be tracked in this rider related to the
21		projects placed into service from January 1, 2019 through December 31, 2020
22		(and additional costs for projects placed in-service in prior years). In the Fall of

1		2021, Duke Energy will file its TDSIC-10 filing which will provide a full plan
2		update to its T&D Plan through 2022. Duke Energy Indiana plans to follow this
3		schedule for the remainder of the T&D Plan (<i>i.e.</i> , Spring filing is for rate recovery
4		for projects placed in-service during the prior calendar year period, and the Fall
5		filing is for plan updates).
6	Q.	WHAT IS THE MANAGEMENT AND OVERSIGHT STRUCTURE FOR
7		THE TDSIC PROGRAM AT DUKE ENERGY INDIANA?
8	А.	Duke Energy Indiana continues to apply and follow a similar management system
9		as described in our previous filings.
10	Q.	DOES DUKE ENERGY INDIANA USE ANY INDUSTRY BEST
11		PRACTICES IN MANAGING SUCH A LARGE PORTFOLIO OF WORK?
12	А.	Yes. Duke Energy Indiana continues to apply Association for the Advancement
13		of Cost Engineering ("AACE") standards and our own Duke Energy Project
14		Management Center of Excellence ("PMCoE") guidelines for managing our
15		seven-year T&D Plan. AACE is recognized internationally as the technical
16		authority in cost and schedule management for programs, projects, products,
17		assets, and services.
18	Q.	CAN YOU PLEASE EXPLAIN THE DIFFERENCE BETWEEN
19		DISCRETE PROJECT AND INSPECTION-BASED PROJECT
20		ESTIMATES INCLUDED IN THE APPROVED T&D PLAN?
21	А.	Yes. As described in previous filings, it is important to re-emphasize the
22		difference in how "discrete" projects and "inspection-based" projects are

IURC CAUSE NO. 44720 TDSIC-9 DIRECT TESTIMONY OF CICELY M. HART FILED APRIL 28, 2021

1		estimated due to the risk of cost variances. All projects other than inspection-
2		based projects are considered a discrete project.
3		Within the Transmission and Distribution Improvement Plans, there are
4		two types of discrete projects, Reliability and Distribution Automation/IVVC.
5		Our reliability-based projects involve repair or replacement of existing aging
6		assets. Often, we used our Transmission Asset Management data or our
7		Geospatial Information System ("GIS") to identify the location and number of
8		projects or units. Typically, the GIS identified projects are subject to less unit
9		variance. If there is a variance, it is normally driven by the accuracy level of the
10		GIS. The second type, Distribution Automation/ IVVC, involves the installation
11		of new assets.
12		Within the Transmission and Distribution Improvement Plans, there are
13		three types of inspection-based projects. These include Ground Line Treatment
14		("GLT"), Surface Mounted Equipment Inspections ("SMEI"), and Capacitor
15		Changeouts. Different from the discrete projects, the volume of units is directly
16		related to the condition of the equipment within the area being inspected.
17	Q.	IS THERE AN ESTIMATING ACCURACY DIFFERENCE BETWEEN
18		DISCRETE PROJECTS VERSUS INSPECTION-BASED PROJECTS?
19	A.	Yes. As described in previous filings, per the plan agreed to in the TDSIC
20		Settlement and approved by the Commission, discrete projects are mostly AACE
21		Class 2 and Class 3 for the upcoming year, and inspection-based projects are
22		Class 4 for the upcoming year. However, due to the nature of the inspection-

IURC CAUSE NO. 44720 TDSIC-9 DIRECT TESTIMONY OF CICELY M. HART FILED APRIL 28, 2021

1		based projects and unit cost estimates based on historical averages, Duke Energy
2		Indiana considers these estimates equivalent to an AACE Class 3.
3		The following is a refresher of the AACE Estimate Class Estimates:
4		• Class 2 - Engineering 30% to 70% complete, detailed unit cost, -15% to
5		+20% estimating accuracy.
6		• Class 3 – Engineering 10% to 40% complete, semi-detailed unit cost, -20%
7		to +30% estimating accuracy.
8		• Class 4 – Engineering 1% to 15% complete, parametric models from
9		historical cost estimates, -30% to $+50\%$ estimating accuracy.
10		III. OVERALL T&D PLAN ACHIEVEMENT
11	Q.	CAN YOU PLEASE DESCRIBE THE OVERALL PROGRESS ON THE
12		ENTIRE T&D PLAN FOR 2020?
13	A.	Yes. Duke Energy Indiana executed the 2020 T&D Plan within scope, schedule
14		and budget. The additional capital investment in calendar year 2020 for in-
15		service projects for the T&D Plan was \$174.3 million, compared to the \$208.3
16		million estimate for 2020 filed in our TDSIC-8 plan update. At the end of the
17		fifth year of the seven-year T&D Plan, our cumulative investment in-service plan
18		is \$910.5 million, compared to the 2020 cumulative cap of \$928.1 million per the
19		TDSIC Settlement, or 1.9% under cap. For more details on cost recovery and the
20		cumulative cap, see Petitioner's Exhibits 1-B (CMH), 1-C (CMH) and the
21		testimony of Maria T. Diaz. Further, Petitioner's witness Mr. Martin D. Dickey
22		will provide support and detail regarding the Distribution Substation,

1		Transmission Substation, and Transmission Line portions of the T&D Plan.
2		Through the five years, we remain on track to deliver equal or greater customer
3		value for the seven-year capital cost of \$1.408 billion.
4	Q.	DOES DUKE ENERGY INDIANA PROJECT IT WILL BE ABLE TO
5		COMPLETE ITS SEVEN-YEAR PLAN ON TIME AND WITHIN THE
6		APPROVED SETTLEMENT CAP?
7	А.	Yes, we have refined the T&D Plan to account for changes in labor and material
8		costs and, at this time, we have confidence that we will deliver on our updated
9		T&D Plan commitment. In our updated T&D Plan reflected in Petitioner's
10		Exhibit 1-A in TDSIC-8 and included with the TDSIC-9 Petition as Attachment 1,
11		we are on track to deliver equal or greater customer value for the seven-year
12		capital cost of \$1.408 billion. We often move projects from year to year and to or
13		from the alternate list, as our priorities adjust. This will continue year after year
14		as we continue to optimize our T&D Plan. Additionally, as we manage cost
15		increases, our contingency has decreased with the TDSIC Settlement cumulative
16		caps. As expected with a seven-year project life cycle, the approved contingency
17		has been fully allocated or accounted for within the estimate refinement process
18		over the remaining years of the plan for estimate uncertainty and execution risks.
19		More information regarding the purpose and use of contingency is provided later
20		in my testimony in Section VI.
21	Q.	PLEASE EXPLAIN THE OVERALL DUKE ENERGY INDIANA
22		STRATEGY TO ASSURE PLAN PERFORMANCE ON TDSIC.

IURC CAUSE NO. 44720 TDSIC-9 DIRECT TESTIMONY OF CICELY M. HART FILED APRIL 28, 2021

1	А.	As described in our TDSIC-8 submission, our history and experience demonstrate
2		that to maximize the customer benefits, place all assets in service, and meet our
3		approved settlement cap, our annual work plan must be slightly over-ramped to
4		achieve the in-service target approved in the TDSIC Settlement. This also
5		translates to a corresponding capital overspend to achieve our annual settlement
6		cap due to inherent actual spend versus in-service lag primarily associated with
7		project close out and invoice timing. To accomplish our commitments, our plan
8		must also allow for adjustments associated with both anticipated and
9		unanticipated project delays. These adjustments require changes to our annual
10		plan spending levels to allow for these project delays. Examples may include
11		things like storms that impact our local service area, off-system storm
12		deployments, vendor material delays, postponed or shifting planned outage
13		schedules, resource challenges, technology changes, and standards changes. In
14		conclusion, all these factors must be considered as part of our project
15		management and TDSIC oversight strategy to assure we are maximizing plan
16		performance and benefits to our customers.
17	Q.	BRIEFLY TOUCH ON ANY SIGNIFICANT ITEMS THAT HAVE
18		IMPACTED COMPLETION OF THE 2020 WORK PLAN.
19	А.	There are two items that merit some discussion for Distribution: the COVID
20		Pandemic and 2020's historic storm season. First, Duke Energy, like the rest of
21		the nation, had workforce limitations due to COVID-19. This was especially
22		impactful in the last quarter of 2020, as Indiana's case count rose, and Duke

IURC CAUSE NO. 44720 TDSIC-9 DIRECT TESTIMONY OF CICELY M. HART FILED APRIL 28, 2021

1		Energy had several internal and contract crews that contracted the virus. This
2		was further exacerbated by the crews released to off-system storms, increasing
3		their exposure to the virus. Policies were further adjusted whereby when one
4		crew member was ill or showing symptoms, the entire crew was quarantined
5		causing work delays and impacting final completion of the plan for certain work
6		streams.
7		The second item was major storm support for storms during the most
8		active Atlantic hurricane season with the highest number of named storms on
9		record. Additionally, we had a large number of on-system storms. As part of our
10		Company's responsibility to our customers, we deployed resources several times
11		to assist in storm restoration, leading to a reallocation of 5.3% of Distribution's
12		total labor hours. While these factors have impacted the 2020 investments, we
13		have made necessary schedule adjustments for 2021 and 2022 to keep the 7-year
14		plan intact.
15	IV	7. <u>DISTRIBUTION SYSTEM CIRCUIT IN-SERVICE INVESTMENTS</u>
16	Q.	HAS DUKE ENERGY INDIANA PROVIDED THE IN-SERVICE COST
17		FOR DISTRIBUTION SYSTEM CIRCUIT PROJECTS COMPLETED IN
18		THE T&D PLAN DURING 2020?
19	A.	Yes. The in-service cost information can be found in Petitioner's Exhibit 1-B
20		(CMH) at an aggregate level. A more detailed level view of updated costs
21		estimates for the Distribution System Circuit Improvements are provided as
22		Petitioner's Confidential Exhibit 1-D (CMH). Finally, the most detailed cost

1		breakdown level of cost information for every project in the Distribution System
2		Circuit Improvement portion of the Plan has been provided as Petitioner's
3		Confidential Exhibit 1-E (CMH).
4	Q.	WERE ALL PROJECTS COMPLETED IN 2020 WITHIN THE T&D
5		WORK PLAN APPROVED BY THE COMMISSION?
6	A.	Yes. We are executing the T&D Plan as approved by the Indiana Utility
7		Regulatory Commission. We are executing the T&D Plan as agreed to in the
8		TDSIC Settlement and as approved by the Commission. While there have been
9		some standards improvements, movement between years, and priority changes,
10		the overall scope and intent of the T&D Plan has not changed.
11	Q.	WERE ALL PROJECTS WITHIN THE 2020 DISTRIBUTION SYSTEM
12		CIRCUIT IMPROVEMENT PLAN COMPLETED AS PLANNED?
13	А.	No. As reasonable and expected, some individual work orders within projects
14		have been advanced or delayed based on typical conditions (i.e., customer
15		requests, outage delays, weather, difficult access, etc.); however, the majority of
16		the work was completed in 2020. Long duration cable-based projects scheduled
17		for the fourth quarter were the most impacted by delays previously discussed in
18		the above testimony. These projects either completed in first quarter of 2021 or
19		have been carried forward to future months due to scheduling delays. Overall,
20		projects for the Distribution System Circuit Improvement plan are on track per the
21		plan update provided in the TDSIC-8 filing.

1	Q.	ARE ANY COSTS FROM IN-SERVICE PROJECTS PRIOR TO 2020
2		INCLUDED IN THE TDSIC-9 RECOVERY FILING?
3	А.	Yes. In 2020, nineteen projects have work orders that have received further
4		charges or credits primarily due to normal business accounting rules associated
5		with invoicing timing, reconciliation, etc. This is expected and will continue
6		throughout the life of the TDSIC work plan. See Petitioner's Exhibit 1-C (CMH),
7		and Confidential Exhibits 1-F (CHM) and 1-G (CMH).
8	Q.	WAS ANY APPROVED FUTURE DISTRIBUTION SYSTEM CIRCUIT
9		IMPROVEMENT SCOPE ADVANCED INTO 2020 FROM FUTURE
10		YEARS?
11	А.	Yes. Per the flexibility established by the Settlement Agreement, Duke Energy
12		Indiana has moved units from within approved projects between years.
13	V.	DISTRIBUTION SYSTEM CIRCUIT PROJECT COST VARIANCES
14	Q.	PLEASE BRIEFLY TOUCH ON THE COMPANY'S ACTUAL 2020
15		DISTRIBUTION SYSTEM CIRCUIT IN-SERVICE INVESTMENTS
16		COMPARED TO THE UPDATED FORECAST PROVIDED IN TDSIC-8.
17	А.	At year-end 2020, the actual total investment for projects in service minus costs
18		for carryover projects was \$71.7 million. The forecast associated with the set of
19		projects that were in-service between January 1 and December 31, 2020 is \$77.3
20		million, for a total variance for Distribution System Circuit projects of 7% under
21		forecast. See Petitioner's Exhibit 1-A (CMH).

1	Q.	WERE THERE ANY OVERALL FACTORS THAT DROVE VARIANCES
2		WITHIN THE DISTRIBUTION SYSTEM CIRCUIT PLAN FOR 2020?
3	А.	Yes. At an individual project level, there are multiple factors that can drive cost
4		variances, such as outage constraints, labor costs, and material availability. In
5		2020 Duke Energy Indiana worked to enhance contract strategies with our
6		external crews, specifically we reduced approval of time and equipment hours,
7		and overtime hours. Additionally, enhanced material processes improved
8		accuracy and material stewardship leading to increased efficiency and less
9		downtime for crews.
10	Q.	HAS DUKE ENERGY INDIANA SPECIFICALLY IDENTIFIED THE
11 -		VARIANCES FOR 2020 DISTRIBUTION SYSTEM CIRCUIT
12		IMPROVEMENT PROJECTS?
13	А.	Yes. Even though the distribution system circuit improvement overall portfolio of
14		projects were under our estimates for 2020, there were individual projects that
15		have larger variances. Variance explanations are provided in Petitioner's
16		Confidential Exhibit 1-D (CMH).
17	Q.	FOR THIS FILING, WHICH PROJECT TYPES CONTAINED LARGER
18		VARIANCES IN THE DISTRIBUTION SYSTEM CIRCUIT
19		IMPROVEMENT PORTFOLIO?
20	А.	There are four items worthy of mentioning for this filing: 1) Deteriorated
21		Conductor, 2) GLT, 3) Line Sensor Stand Alone, and 4) End of Line Voltage

1		Sensors. For the filing, all of these projects were under their filed estimates. See								
2		Petitioner's Confidential Exhibit 1-D (CMH).								
3	Q.	PLEASE EXPLAIN WHAT DROVE VARIANCES IN THESE PROJECTS.								
4	A.	The underspend on these projects is driven primary by labor. As mentioned								
5		above the enhanced contract strategies with external crews reduced approval of								
6		time and equipment hours and overtime hours. Improved material processes								
7		increased accuracy and material stewardship leading to compounded efficiency								
8		and less downtime for crews. See Petitioner's Confidential Exhibit 1-D (CMH).								
9		VI. <u>CONTINGENCY AND CAPS</u>								
10	Q.	PLEASE EXPLAIN THE PURPOSE OF CONTINGENCY AND WHY IT								
11		IS IMPORTANT.								
12	А.	By AACE definition, contingency is an amount added to an estimate to allow for								
13		items, conditions, or events for which the state, occurrence, or effect is uncertain								
14		and that experience shows will likely result, in aggregate, in additional costs.								
15		Duke Energy is using contingency to manage estimate uncertainty and risk that								
16		may result in a cost increase.								
17	Q.	WHY IS IT APPROPRIATE TO USE CONTINGENCY AND UNDER-RUN								
18		FOR PROJECT OVERAGES?								
19	А.	Per the approved T&D Plan, contingency was included in the total project								
20		category estimates as per AACE recommended practices. Contingency is added								
21		to the base cost estimates of the project to cover estimate uncertainty and risk.								
22		Duke Energy Indiana is applying its contingency to projects with larger variances.								

1		With the use of the approved contingency and under-run, Duke Energy Indiana
2		remains within 20% maximum variance for all projects that were placed in-
3		service in 2020.
4	Q.	HOW HAS DUKE ENERGY INDIANA APPLIED THE CONTINGENCY
5		AND UNDER-RUN TO THE DISTRIBUTION SYSTEM CIRCUIT
6		IMPROVEMENT PROJECTS THAT WENT IN-SERVICE IN 2020?
7	А.	In previous years, contingency and under-run was applied to projects with
8		increases greater than 20% to bring them to within 20% as required for Class 2
9		estimating standards. In 2020, distribution projects were either met or were under
10		their projected estimates. Please see Petitioner's Confidential Exhibit 1-D (CMH).
11	Q.	CAN YOU EXPLAIN HOW THE VARIANCES, CONTINGENCY, AND
12		YEARLY CAPS AS AGREED TO IN THE SETTLEMENT OPERATE
13		TOCETHED?
		TODETIMER:
14	A.	Yes. Our methodology and approach stated in prior TDSIC filings remains
14 15	A.	Yes. Our methodology and approach stated in prior TDSIC filings remains consistent and unchanged. Due to the Settlement Agreement cumulative caps by
14 15 16	A.	Yes. Our methodology and approach stated in prior TDSIC filings remains consistent and unchanged. Due to the Settlement Agreement cumulative caps by year, Duke Energy Indiana cannot request recovery of any more costs than what
14 15 16 17	A.	Yes. Our methodology and approach stated in prior TDSIC filings remains consistent and unchanged. Due to the Settlement Agreement cumulative caps by year, Duke Energy Indiana cannot request recovery of any more costs than what was agreed to by year in the Settlement Agreement. The following example was
14 15 16 17 18	А.	Yes. Our methodology and approach stated in prior TDSIC filings remains consistent and unchanged. Due to the Settlement Agreement cumulative caps by year, Duke Energy Indiana cannot request recovery of any more costs than what was agreed to by year in the Settlement Agreement. The following example was given in our settlement testimony in Cause No. 44720: "For example, if Duke
14 15 16 17 18 19	Α.	Yes. Our methodology and approach stated in prior TDSIC filings remains consistent and unchanged. Due to the Settlement Agreement cumulative caps by year, Duke Energy Indiana cannot request recovery of any more costs than what was agreed to by year in the Settlement Agreement. The following example was given in our settlement testimony in Cause No. 44720: "For example, if Duke Energy Indiana spent only \$81.8 million in 2016, then in 2017 Duke Energy
14 15 16 17 18 19 20	Α.	Yes. Our methodology and approach stated in prior TDSIC filings remains consistent and unchanged. Due to the Settlement Agreement cumulative caps by year, Duke Energy Indiana cannot request recovery of any more costs than what was agreed to by year in the Settlement Agreement. The following example was given in our settlement testimony in Cause No. 44720: "For example, if Duke Energy Indiana spent only \$81.8 million in 2016, then in 2017 Duke Energy Indiana could spend \$213.7 million plus \$10 million carried forward from 2016;
14 15 16 17 18 19 20 21	A.	Yes. Our methodology and approach stated in prior TDSIC filings remains consistent and unchanged. Due to the Settlement Agreement cumulative caps by year, Duke Energy Indiana cannot request recovery of any more costs than what was agreed to by year in the Settlement Agreement. The following example was given in our settlement testimony in Cause No. 44720: "For example, if Duke Energy Indiana spent only \$81.8 million in 2016, then in 2017 Duke Energy Indiana could spend \$213.7 million plus \$10 million carried forward from 2016; conversely, if Duke Energy Indiana spent \$111.8 million in 2016, then Duke

IURC CAUSE NO. 44720 TDSIC-9 DIRECT TESTIMONY OF CICELY M. HART FILED APRIL 28, 2021

1		associated with \$91.8 million for 2016, and retain the ability to move \$20 million
2		into a future year of the Plan as long as the cumulative capital cost as adjusted is
3		not exceeded in any year. In addition, the Settling Parties agree that Duke Energy
4		Indiana should have the flexibility to move projects from one year to another
5		within the 7-year Plan." See Cause No. 44720, Petitioner's Exhibit 9 at p. 9.
6		Contingency dollars are used for estimate uncertainty and risk and are
7		allocated to projects when needed. Given the annual / cumulative caps, any
8		unutilized project variances between actual annual costs and the caps will be
9		carried to subsequent years and used to offset future negative project variances or
10		pull forward additional projects from the alternate list.
11	Q.	HAVE YOU ESTIMATED THE AMOUNT OF 2020 UNUTILIZED COSTS
12		UNDER THE SETTLEMENT CAP THAT WILL BE CARRIED
12 13		UNDER THE SETTLEMENT CAP THAT WILL BE CARRIED FORWARD TO 2021 AND BEYOND?
12 13 14	A.	UNDER THE SETTLEMENT CAP THAT WILL BE CARRIED FORWARD TO 2021 AND BEYOND? Yes, based on 2020 actual in-service cost, \$17.6 million of unused cap will be
12 13 14 15	A.	UNDER THE SETTLEMENT CAP THAT WILL BE CARRIED FORWARD TO 2021 AND BEYOND? Yes, based on 2020 actual in-service cost, \$17.6 million of unused cap will be carried over to future years. This amount is the difference between the approved
12 13 14 15 16	A.	UNDER THE SETTLEMENT CAP THAT WILL BE CARRIEDFORWARD TO 2021 AND BEYOND?Yes, based on 2020 actual in-service cost, \$17.6 million of unused cap will becarried over to future years. This amount is the difference between the approvedcumulative 2020 Settlement cap of \$928.1 million and the 2020 cumulative in-
12 13 14 15 16 17	A.	UNDER THE SETTLEMENT CAP THAT WILL BE CARRIEDFORWARD TO 2021 AND BEYOND?Yes, based on 2020 actual in-service cost, \$17.6 million of unused cap will becarried over to future years. This amount is the difference between the approvedcumulative 2020 Settlement cap of \$928.1 million and the 2020 cumulative in-service investments of \$910.5 million. See Petitioner's Exhibit 1-B (CMH).
12 13 14 15 16 17 18	A.	UNDER THE SETTLEMENT CAP THAT WILL BE CARRIED FORWARD TO 2021 AND BEYOND? Yes, based on 2020 actual in-service cost, \$17.6 million of unused cap will be carried over to future years. This amount is the difference between the approved cumulative 2020 Settlement cap of \$928.1 million and the 2020 cumulative in- service investments of \$910.5 million. See Petitioner's Exhibit 1-B (CMH). VI. PROJECT OPERATION & MAINTENANCE EXPENSE
12 13 14 15 16 17 18 19	А. Q .	UNDER THE SETTLEMENT CAP THAT WILL BE CARRIEDFORWARD TO 2021 AND BEYOND?Yes, based on 2020 actual in-service cost, \$17.6 million of unused cap will becarried over to future years. This amount is the difference between the approvedcumulative 2020 Settlement cap of \$928.1 million and the 2020 cumulative in-service investments of \$910.5 million. See Petitioner's Exhibit 1-B (CMH).VI. PROJECT OPERATION & MAINTENANCE EXPENSEPLEASE EXPLAIN WHAT O&M EXPENDITURES HAVE BEEN
12 13 14 15 16 17 18 19 20	А. Q .	UNDER THE SETTLEMENT CAP THAT WILL BE CARRIEDFORWARD TO 2021 AND BEYOND?Yes, based on 2020 actual in-service cost, \$17.6 million of unused cap will becarried over to future years. This amount is the difference between the approvedcumulative 2020 Settlement cap of \$928.1 million and the 2020 cumulative in-service investments of \$910.5 million. See Petitioner's Exhibit 1-B (CMH).VI. PROJECT OPERATION & MAINTENANCE EXPENSEPLEASE EXPLAIN WHAT O&M EXPENDITURES HAVE BEENAPPROVED TO BE INCLUDED IN THE T&D PLAN.
 12 13 14 15 16 17 18 19 20 21 	А. Q. А.	UNDER THE SETTLEMENT CAP THAT WILL BE CARRIEDFORWARD TO 2021 AND BEYOND?Yes, based on 2020 actual in-service cost, \$17.6 million of unused cap will becarried over to future years. This amount is the difference between the approvedcumulative 2020 Settlement cap of \$928.1 million and the 2020 cumulative in-Service investments of \$910.5 million. See Petitioner's Exhibit 1-B (CMH).VII. PROJECT OPERATION & MAINTENANCE EXPENSEPLEASE EXPLAIN WHAT O&M EXPENDITURES HAVE BEENAPPROVED TO BE INCLUDED IN THE T&D PLAN.Our methodology for recoverable O&M has not changed from what was included

1		Indiana included project related O&M expenditures in its estimated T&D Plan.
2		These are O&M expenses that are directly related to T&D capital projects. We
3		did not include, for instance, stand-alone O&M projects that were not caused by
4		or directly related to a T&D Plan capital project. The TDSIC Settlement provided
5		for recovery of this type of project-related O&M as did the IURC Order in the
6		recent retail rate case in Cause No. 45253.
7	Q.	HAVE THERE BEEN ANY SIGNIFICANT CHANGES TO THE
8		ESTIMATED O&M THAT WAS SUBMITTED TO THE COMMISSION
9		IN CAUSE NO. 44720 TDSIC-6?
10	А.	No.
11		VIII. SETTLEMENT AGREEMENT REPORTING OBLIGATIONS
12	Q.	HAS DUKE ENERGY INDIANA PROVIDED THE REQUIRED IVVC
13		REPORT AS DETAILED IN THE SETTLEMENT AGREEMENT?
14	A.	Yes. Duke Energy Indiana began reporting in the Fall of 2020 in TDSIC-8. See
15		Cause No. 44720 TDSIC-8 Direct Testimony of Cicely M. Hart, pp. 27-28.
16	IX.	7-YEAR DISTRIBUTION SYSTEM CIRCUIT IMPROVEMENT PLAN
17	Q.	HAS DUKE ENERGY INDIANA PROVIDED A COMPREHENSIVE LIST
18		OF EACH PROJECT AND THEIR RESPECTIVE VARIANCES?
19	A.	Yes. Duke Energy Indiana provided that document as part of its workpapers. See
20		Petitioner's Confidential Exhibit 1-E (CMH) and Confidential Workpaper 1-
21		СМН.

1	Q.	HAS DUKE ENERGY INDIANA PROVIDED A BLACK & VEATCH
2		RISK PROFILE UPDATE?
3	А.	Yes. Duke Energy Indiana provided Black & Veatch analysis as part of TDSIC-
4		8. See Cause No. 44720 TDSIC-8 Direct Testimony of Cicely M. Hart, pp. 20-21
5		and Petitioner's Exhibit 1-E (CMH).
6	X.	DUKE ENERGY INDIANA HAS MET STATUTORY REQUIREMENTS
7	Q.	HAS DUKE ENERGY INDIANA PROVIDED AN UPDATE TO ITS
8		7-YEAR PLAN AS REQUIRED BY INDIANA CODE § 8-1-39-9?
9	A.	Yes. The updated T&D Plan was provided in the TDSIC-8 filing on October 28,
10		2020 and is pending before the Commission. Additionally, the attached exhibits
11		reflect our progress update on that plan to date. Our next full T&D Plan update
12		will be included in our TDSIC-10 filing planned for the Fall of 2021.
13	Q.	DOES THE PUBLIC CONVENIENCE AND NECESSITY REQUIRE THE
14		DISTRIBUTION IMPROVEMENTS INCLUDED IN DUKE ENERGY
15		INDIANA'S UPDATED PLAN?
16	A.	Yes. The eligible improvements will serve the public convenience and necessity
17		as described in Duke Energy Indiana's case-in-chief in Cause No. 44720. There
18		has been no change in scope from the approved plan.
19	Q.	ARE THE IN-SERVICE COSTS OF THE ELIGIBLE IMPROVEMENTS
20		INCLUDED IN THE T&D PLAN JUSTIFIED BY THE INCREMENTAL
21		BENEFITS ATTRIBUTABLE TO THE PLAN?

IURC CAUSE NO. 44720 TDSIC-9 DIRECT TESTIMONY OF CICELY M. HART FILED APRIL 28, 2021

1	А.	Yes. The estimated costs are per the plan agreed to in the Settlement and as
2		approved by the Indiana Utility Regulatory Commission. We are within the range
3		of initial cost estimates and as we complete our workplan, the expected benefits
4		immediately flow to our customers.
5		XI. <u>CONCLUSION</u>
6	Q.	WERE PETITIONER'S EXHIBITS 1-A (CMH) THROUGH 1-C (CMH)
7		AND CONFIDENTIAL EXHIBITS 1-D (CMH) THROUGH 1-G (CMH)
8		PREPARED BY YOU OR AT YOUR DIRECTION?
9	А.	Yes, they were.
10	Q.	DOES THIS CONCLUDE YOUR PREFILED TESTIMONY?
11	A.	Yes, it does.

				in service	1,1,20 12,51,20						
				Car	ital		0&M				
					Filed TDSIC-8					A - N - T	
		Actuals (In-	Filed TDSIC-8	Contingency	Contingency and	Actual vs. Filed		Actuals (in-	Filed TDSIC-8	Filed TDSIC-8	
		Service	Plan (In-Service	and Under-	Under-Run	TDSIC-8 Plan	%	Service	Plan (In-Service	Plan	
Function	Project Category	Investments) ¹	Investments)2	Run Applied ³	Applied	Variance	Variance	Investments)	Investments)2	Variance	% Variance
	Distribution System Circuit	1									
Distribution	Improvements	71,685,689	77,260,653	-	77,260,653	5,574,964	7%	9,716,449	9,128,799	(587,650)	-6%
	Distribution System										
	Substation Improvements	41,861,022	43,883,867	-	43,883,867	2,022,845	5%	20,480	45,239	24,760	55%
Distribution Total		113,546,711	121,144,520	-	121,144,520	7,597,809	6%	9,736,928	9,174,038	(562,890)	-6%
	Transmission System Line										
Transmission	Improvements	25,252,047	24,641,398	13,577	24,654,974	(597,072)	-2%	888,150	1,126,589	238,440	21%
	Transmission System										
	Substation Improvements	33,090,401	34,210,611	-	34,210,611	1,120,210	3%	1,185	(0)	(1,185)	0%
Transmission Total		58,342,448	58,852,009	13,577	58,865,585	523,137	1%	889,335	1,126,589	237,255	21%
Total		171,889,159	179,996,529	13,577	180,010,105	8,120,947	5%	10,626,263	10,300,628	(325,635)	-3%

Summary of Actuals vs. Estimates by Functional Category In-service 1/1/20 - 12/31/20

1. 2020 actuals do not include carryover for projects placed in service in prior years, with costs carried into 2020.

2. Only includes projects from TDSIC-8 Plan that went into service in 2020 and excludes Contingency.

3. 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.

Cumulative Summary by Functional Category 1/1/16 - 12/31/20

			Capital						O&M					
				1		2020 (TDSIC-9)	Cumulative In-							
		2016 (TDSIC-2) In-	2017 (TDSIC-4)	2018 (TDSIC-6) In-		Actual In-	Service	2016 (TDS/C-2) in-	2017 (TDSIC-4) In-	2018 (TDSIC-6) In-		2020 (TDSIC-9)		
		Service	In-Service	Service	2019 In-Service	Service	Investments	Service	Service	Service	2019 In-Service	Actual In-Service		
Function	Project Category	investments	Investments	Investments	Investments	Investments ¹	through 2020	Investments	Investments	Investments	Investments	investments ¹		
Distribution	Distribution System Circuit Improvements	46,721,064	86,123,335	80,350,572	112,916,236	70,927,760	397,038,967	10,297,458	13,552,192	12,713,389	11,985,172	9,912,622		
	Distribution System Substation Improvements	2,925,014	33,087,571	47,455,999	35,771,702	42,614,949	161,855,234	26,798	89,369	(61,935)	8	20,480		
Distribution Total		49,646,078	119,210,906	127,806,571	148,687,938	113,542,709	\$58,894,202	10,324,256	13,641,560	12,651,455	11,985,179	9,933,102		
Transmission	Transmission System Line Improvements	21,819,113	57,776,645	60,666,842	50,886,697	27,275,617	218,424,914	1,028,201	4,434,411	2,897,625	1,569,605	879,894		
	Transmission System Substation Improvements	9,056,871	19,020,468	52,765,342	18,881,933	33,453,852	133,178,466	203,580	229,980	7,714	3,666	1,185		
Transmission Total		30,875,984	76,797,113	113,432,183	69,768,630	60,729,469	351,603,379	1,231,781	4,664,391	2,905,339	1,573,271	881,079		
Total		80,522,062	196,008,019	241,238,754	218,456,568	174,272,177	910,497,581	11,556,037	18,305,951	15,556,794	13,558,451	10,814,181		
	Cumulative Settlement CAP						928,100,000							

1. 2020 Actual Recovery includes project in service carryover dollars from prior years.

Summary by Functional Category 2020 Recovery for Projects In-service by 12/31/20

			Capital			0&M					
					Prior Year In-					Prior Year In-	
			Filed		Service			Filed	2020 Actuals	Service	
1		Filed	TDSIC-8 Plan	2020 Actuals	Investments'		Filed	TDSIC-8 Plan	(Related to In-	Investments'	
Ì		TDSIC-8 Plan	(In-Service	(In-Service	Current Year	Total Recovery	TDSIC-8 Plan	(In-Service	Service	Current Year	Total Recovery
Function	Project Category	Update	Investments]1	investments)	Carryover Value	TDSIC-9	Update	Investments)1	Investments)	Carryover Value	TDSIC-9
Distribution	Distribution System Circuit Improvements	93,567,524	76,578,028	71,685,689	(757,929)	70,927,760	10,315,116	9,375,835	9,716,449	196,174	9,912,622
1	Distribution System Substation Improvements	48,118,335	46,147,184	41,861,022	753,927	42,614,949	188,469	45,239	20,480		20,480
Distribution Total		141,685,859	122,725,213	113,546,711	(4,002)	113,542,709	10,503,585	9,421,075	9,736,928	196,174	9,933,102
Transmission	Transmission System Line Improvements	31,634,003	25,986,927	25,252,047	2,023,570	27,275,617	955,518	679,889	888,150	(8,256)	879,894
	Transmission System Substation Improvements	34,990,730	43,662,469	33,090,401	363,451	33,453,852	2,562	2,562	1,185	-	1,185
Transmission Total		66,624,733	69,649,396	58,342,448	2,387,021	60,729,469	958,080	682,451	889,335	(8,256)	881,079
Total		208,310,593	192,374,609	171,889,159	2,383,019	174,272,177	11,461,664	10,103,526	10,626,263	187,918	10,814,181

1. Only includes projects from TDSIC-8 Plan that were placed in service in 2020 and estimated carryover for projects placed in service in prior years, also included in the TDSIC-8 Plan, and excludes Contingency.

Summary by Functional Category - D Line by Project Category In-service 1/1/20 - 12/31/20

		-						
			~~	Capita	1	r		-
					Filed TDSIC-8			
			Filed		Plan with		[
		Actuals	TDSIC-8 Plan	Contingency	Contingency	Actual vs. Filed	-	
		(In-Service	{In-Service	and Under-	and Under-Run	TDSIC-8 Plan		
Project Category	Distribution Line Details	investments)	Investments) ¹	Run Applied ²	Applied	Variance	% Variance	Comments
Distribution System Circuit (mprovements	34.5 kV Automation						-7%	
	Capacitor Changeout					_	0%	
	Capacitor Cutout/Oil to Vacuum Switch Replacement				c		0%	
	Declared Circuits						11%	
								The underspend is driven primary by labor.
								Enhanced contract strategies with external crews
								reduced approval of T&E hours and overtime hours.
								Additionally, enhanced material processes improved
								accuracy and material stewardship leading to
								increased efficiency and less downtime for crews.
	Deteriorated Conductor						25%	
	General Switchgear Replacement						14%	
					1			The underspend is driven primary by labor.
								Enhanced contract strategies with external crews
								reduced approval of T&E hours and overtime hours.
								Additionally, enhanced material processes improved
								accuracy and material stewardship leading to
								increased efficiency and less downtime for crews.
	Ground Line Pole Replacement (GLT)						74%	and a set and a set a
	Hydraulic Becloser Benlacement						8%	
	Limited Access Board Crossing Ungrade						30%	Amount of overage is immaterial
	annual inters had a cosmb opprac							The underspend is driven primary by labor
								Enhanced contract strategies with external crews
)								reduced approval of T&F hours and overtime hours
								Additionally, enhanced material processes improved
								accuracy and material stewardship leading to
								increased efficiency and less downtime for crews
	Line Sensor (Stand Alone)						15%	increased environey and less downland to dens.
	Live Sensors (Scand Alone)	-					15%	
	Portosor Controls Lingrades / Replacement						1%	
	Sectionalization						2%	
	Self Hasling Teams						-15%	
	Sen-recarding rearies						-15%	
	Three Photo Switch Real-scement						0%	
	Unstational 24 E Ki (Dalta Canasitas Basis Oil Switch						0%	
	Understand Cable Deale second						118/	
	Linderground Cable Injection						11%	
	Underground Cable Injection						076	
	Claude Care Meteria Care Care Care (VVC)						976	
	Circuit Conditioning Capacitor						-1%	
	Circuit Conditioning Regulator						~2%	
	Circuit Conditioning Reconductor						4%	
L	Line voltage Regulator Controls Replacement						10%	t

								2020 was the first year for this score of work and
								does not have the benefit of historical values. The
								does not have the benefit of historical values. The
								average underspend on material was \$2,800 per
								work order, leading to a 28% underspend from the
								estimate. Enhanced material processes improved
								accuracy and material stewardship leading to
								increased efficiency and less downtime for crews.
								Additionally, enhanced contract strategies with
								external crews reduced approval of T&E hours and
	End of Line Voltage sensors						35%	overtime hours.
	Dist System Costs Assoc with Trans Line Improvements						-6%	
Grand Total		71,685,689	77,260,653	0	77,260,653	5,574,964	7%	

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				O&M			
			Filed				
		Armais	TDSIC-8 Plan	1	Actual us Filed		
4		In Senice	Un-Service	1	TOSIC 8 Plan		
Brailert Catations	*Distribution (inc. Details	Invermentsi	invectments)1		Variance	& Variance	Comments
Oversitution System Circuit Improvements	34 5 KV Automation	interest	(uncouncilis)		Vortance	.554	Amount of ourseas it immaterial
Distribution System Circuit unprovernends	JAT D KE MORDAUDA					-33/	Anoun of overage is unmaterial.
							USIN was estimated as a percentage of Capital
1							spend. The percentage was based on a historical
		1					percentage provided by Engineering and Finance.
1							However, since it is an inspection-based project, the
							O&M actually charged to the project can vary
							depending upon what is found in the field, thereby
l							causing a variance between actual O&M compared
							to estimated O&M. Line also includes Capacitor
							Inspections that are performed annually. Majority
							of variance is drvien by lower actual costs associated
	Capacitor Changeout					54%	with performance of inspections
	Declared Circuits					22%	Amount of underspend is immaterial.
	Oeteriorated Conductor					-114%	Amount of overage is immaterial.
	General Switchgear Replacement					55%	Amount of underspend is immaterial.
							While the number of units completed decreased
							the number of inspections remained constant
							therefore the cost of inspections per unit increased
	Convert Line Date Deplement (C) Th					1058	timiticanthy leading to the increase in actual (12.16
······································	Ground the Pole Repetence (str)					-123/4	Signakenny, leading to the endease of sector barry.
	Limited Agence David Contribut Destroids				ļ.	-3/8	Amount of undergoind is immetacial
	Line Concer (Street Along)						Amount of underspend is immetation
	Line Serbors (Stand Alone)					02/4	Autourt of underspend 5 interested
	Uve Front fransformer Replacement					9776	Amount of underspend is immaterial.
	Hectoser Controls Operades / Replacement					0276	Autoratic of anderspend is attistatenet.
	Sectionalization					~67s	
1							Several of the large projects included more
							reconductor than typical self-healing projects.
Į							Reconductor has significantly less O&M associated
1							with it than traditional self-healing scope, leading to
	Self-Healing Teams					47%	the underspend.
	Surface Mounted Equipment Follow-up (SMEI)					46%	Amount of underspend is immaterial
L	Three Phase Switch Replacement			4		0%	
	Ungrounded 34.5 KV Delta Capacitor Bank Oil Switch					0%	
	Underground Cable Replacement					75%	Amount of underspend is immaterial.
							Work processes were improved to coordinate work,
							in more detail, between replacing cells and switches
1							which led to a reduction in Cap Automation O&M
	Capacitor Automation (Non-IVVC and IVVC)					45%	expendatures
	Circuit Conditioning Capacitor					2%	
	Circuit Conditioning Regulator					16%	Amount of underspend is immaterial.
	Circuit Conditioning Reconductor					17%	Amount of underspend is immaterial.
	Line Voltage Regulator Controls Replacement					37%	Amount of underspend is immaterial.
h	End of Line Voltage sensors					12%	
}	Dist System Costs Assoc with Trans Line Improvements					-22%	Amount of overage is immaterial
	GIS Project					-13%	
Grand Total		9.716.44	9,178,799		-99.959	.1%	
			1				

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 rapital 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 only applied at the Filing Project level.

Details by Functional Category - D Line by Project Category by Project Investments for Projects Placed In-Service during 2020

			Capital						06M				
			- tatual		C.	poer	A second		Antorel	L Tatimata	Mariana		
			Actual		Estabate	······	Varia	100	Actual	esumate	j van	are	
			10310-9	1	1	and a more a		[FN			
	1		Recovery value	Glad	1	FRED TUSA-8		1	Recovery value	FREQ	1		
	1		for investments	TOLIC & Blog	Continent	Man Wor	1 m. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.		nor investments	TUSIC-8 Plan	ament in class		
			Placed In-	the familie	contangenary	Contingency	Actual Vs. Filed	1	Placed In-	(Related to m-	Actual VS. Pheo		
			Service During	(ar-service	and Onder-	and Under-	IDSIC-8 Plan		Service During	Service	IDSIC-B Plan		
Distribution Line Details	Project ID CB	Project Short Descr CB	2020	investments)	Ron Applied	Run Applied	Variance	% Variance	2020	Investments 1	Variance	% variance	
34.5 kV Automation	MX8459611	TOSIC 34 5kV AUTOMATION PROJECT UNG						4%			-	1	
	MX1668698	34.5kV Automation Worthington 3466			-			1%				15%	
	MK0193105	34.5kV Automation Dresser 3401						5%				3%	
	MX8381756	TDSIC 34 SKV AUTOMATION PROJECT UNG						1%				3%	
	MX8710566	TOSIC 34 5kV AUTOMATION PROJECT UNG						-2%				3%	
	MX5316243	TDSIC 34 5KV AUTOMATION PROJECT UNG						39%		-			
	MX8381797	TOSIC 34 5kV AUTOMATION PROJECT UNG		•	1					-			
34.5 kV Automation Total								-7%				-55%	
Capacitor Changeout	CAPIN	Capacitor Inst/Rem						100%				95%	
	ISSRCR	Capacitor Changeout - TDSIC											
	ICAPINSX	Capacitor Inspections	}										
	MX2864821	TOSIC-CAPACITOR BANK REPLACE - HMI-									-		
Capacitor Changeout Total								0%				64%	
Capacitor Cutout/Oil to Vacuum Switch Replacement	ISSOTV	Capacitor Oil to Vac Sw Api TDSIC			1	-					-		
Capacitor Cutout/Oil to Vacuum Switch Replacement Total				-	1	- 1			-	-	-		
Declared Circuits	MX2303587	Declared Circuit-Spencer 230kv (250	1					-2%				0%	
	MX8631458	TDSIC-PROACTIVE REPLACEMENT (MATER)						-1%			-	0%	
	MX8631466	TDSIC-PROACTIVE REPLACEMENT (MATERI						0%			-	0%	
	MX8631214	TDSIC-PROACTIVE REPLACEMENT (MATERI			-			0%			-		
	ISD631487	SSDEC 8631487 Dilman Rd						30%				23%	
	MX8631252	TDSIC-PROACTIVE REPLACEMENT (MATERI						-1%				-4%	
	MX8631488	TUSIC-PROACTIVE REPLACEMENT (MATERI						0%				0%	
	MX8631492	TOSIC-PROACTIVE REPLACEMENT IMATERI						31%				79%	
Declared Circuits Total								11%				2756	
Deteriorated Conductor	MX8620512	TOSIC-PROAFTINE REPLACEMENT SECTION						2%				3%	
	MX8620509	TOSIC-PROACTIVE REPLACEMENT SECTION						-1%				-5%	
	MX8620521	TOSIC-PROACTIVE REPLACEMENT SECTION						25%					
	MY8620513	TOSIC DROACTIVE DEDI ACEMENT SECTION				-		364				7%	
Deteriorated Conductor Total								25%				-114%	
General Switchmar Renlacement	ISMIGINSY	OM Switchgeer LKS Incn		1									
deniar a switcington reportation	MY5677778	TOSIC REDI ACKEENT SURTCHIGE AR		.1.				794					
	A4X6622915	TOSIC REDI ACKAENT SWITCHIGEAR						-196	———			-	
	1414222020	TODIC OMPENDENCIAL SUPPORT OF A						2004					
	A4X4232070	TOSIC SWITCHGEAD DEDIACEMENT SG-2	-					2.5%	<u> </u>				
	16CGA1602	TODIC SWITCHOOM ROPACEMENT 10-2,										10064	
	100041003	5WC 9641003 e2 3000 r0 1235						249				100%	
	130041004	SWG 8041004 SHRII KO 1235				-		-24%				100%	
	INTA92311/9	TIDDE OUT OWITCHOLAK REPLACEMENT CA						28%	l			100%	
	MA9226005	TUSIC SWITCHGEAR REPLACEMENT						35%				100%	
	MX5511387	33 #3 Writeñal Pike (601) 1251						5%				100%	
······································	156641597	5WG 8641597 Morse Res 1223						21%				76%	
<u> </u>	MX3217194	I DSIC SWITCHGEAR REPLACEMENT						32%				100%	
	MX4231349	TUSIC GEN SWITCHGEAR REPLACEMENT SP						32%	I			100%	

											UIRC Cauca No.	ATTO TOSIC 8
	MY 4722170	TOGIC SIMITCHESAR REPLACEMENT SC 2	1					168		1	ORC CAUSE NO.	44/20 10310-9
Constant Carlotherese Bandana and Tatal	WIA4252170	TUSIC SWITCHGEAR REPLACEMENT 50-3,				-		16%				100%
General Switchgear Replacement (CLT)	CLEDDOWN	Role Deal Confilment				-		14%				55%
Ground Line Pole Replacement (GLT)	GUMDIN	Pole Repi Gno Une-D						100%				100%
	ISORLP	Charles Inspect based Pole Repi-Tusic			1	-					-	
	IF OLIVIA	Con Fole inspections									-	
	ISSPLEIK	Chillion Daylore Repl. Insp Based						·			-	
	ISSPLOT	Die Die Keplace Politisp FU TUSIC									-	
Constitution Bally Design and (CIT) The I	ISSPOLKN	Pole Reinforcements (USIC				-						
Ground Line Pole Replacement (GLI) Total	OCUM.	2				-		24%				-125%
hybraulic Recioser Replacement	KCLIN	Recipser instyriem	-					100%			-	93%
	ISSNER	TELECTORIC RECIOSE REPIC-TUSIC	-			-						
	WIA8042352	IDSIC RYDRAULIC RECLOSER REPLACED W				-			-			
	MX8642335	HYDRAUUC RECLOSER REPLACED WITH IN				-					· · · · ·	
	MX8642200	MXCONV-Hydraulic Recloser Changeout				-					-	
	MX8642556	IDSIC HYDRAULIC RECLOSER REPLACED W				····					_	
	MX8642334	TDSIC HYDRAULIC RECLOSER REPLACED W				· · · · ·					· ·	
	MX8642230	Hydraulic Recloser Changeout (ELECT						~			· ·	
	MX5539062	Hydraulic Recloser Changeout ELLETT	1									
	MX8642349	TDSIC HYDRAULIC RECLOSER REPLACED W										
	MX8642350	TOSIC HYDRAULIC RECLOSER REPLACED W										
Hydraulic Recloser Replacement Total	-			-				8%				-3%
Limited Access Road Crossing Upgrade	MX8628979	TDSIC INTERSTATE ACCESS ROAD CROSSS						100%				100%
	MX8630897	TDSIC INTERSTATE ACCESS ROAD CROSSS						19%				100%
	MX8628981	TDSIC INTERSTATE ACCESS ROAD CROSSS						21%				88%
	MX8628982	TDSIC INTERSTATE ACCESS ROAD CROSSS						65%				83%
	MX8628983	TDSIC INTERSTATE ACCESS ROAD CROSSS						56%				61%
	MX8630901	TDSIC INTERSTATE ACCESS ROAD CROSSS						-48%				97%
	MX8631320	TDSIC INTERSTATE ACCESS ROAD CROSSS						42%				17%
Limited Access Road Crossing Upgrade Total								30%				75%
Line Sensors (Stand Alone)	LINESENIN	Line Sensor Inst for 1PH - 3PH						15%				62%
Line Sensors (Stand Alone) Total								15%				62%
Live Front Transformer Replacement	LVFRTIN	Upgrade Live Front Transformers						228%				
	ISSRTR	Live Front Transformers Rplc-TDSIC			-	-					-	
	MX8634932	MXCONV-LIVE FRONT TRANSFORMER REPLA						9%				0%
	ISR618666	RTR 8618666 NC 138 12KV 1221					-	0%		-	-	
	MX8637814	MXCONV-LIVE FRONT TRANSFORMER REPLA	,					2%			-	0%
	ISR624859	RTR 8624859 Clifty Creek					-	0%		-	-	
	MX8634888	MXCONV-LIVE FRONT TRANSFORMER REPLA						3%		-	-	
	MX8634889	MXCONV-LIVE FRONT TRANSFORMER REPLA						1%		-	-	
	ISR624874	SSRTR 8624874 Meadow Park						41%				101%
	I5R624876	S5RTR 8624876 Meadow Park]		70%				101%
	I5R524877	SSRTR 8624877 Meadow Park			-			19%				101%
	MX8638421	MXCONV-LIVE FRONT TRANSFORMER REPLA						0%				100%
Live Front Transformer Replacement Total								5%				97%
Recloser Controls Upgrades / Replacement	MX8634548	TDSIC - ELECTRONIC RECLOSER REPLAC						1%				0%
	MX8634549	TDSIC - ELECTRONIC RECLOSER REPLAC			-			-2%			· ·	0%
	158634531	ER 8634531 BLM Smith Rd 1232						4%			-	0%
	MX5339045	ELECTRONIC RECLOSER REPLACEMENT~MAR						-9%				100%
Recioser Controls Upgrades / Replacement Total								-1%				62%
Sectionalization	MX8822564	MXCONV-TH MARGARET AVE 591~1204~CIR						-2%				6%
	158168975	S5RFS 9168975 1404 New Al						3%				-12%
	MX8647828	TDSIC INSTALL SECTIONALIZING DEVICE						12%				0%
	1000000000	100 300 40 30 40 40 40 40 40 40 40 40 40 40 40 40 40									-	1

						PE	TITIONER'S EXHI	BIT 1-E (CMH)
		-			_	 	URC Cause No. 4	4720 TDSIC-9
MX86	47547	TDSIC INSTALL SECTIONALIZING DEVICE		-	1%			0%
MX86	47647	TDSIC INSTALL SECTIONALIZING DEVICE			3%	_	•	0%
MX91	68894	TDSIC INSTALL SECTIONALIZING DEVICE			9%	-		
MX86-	47739	TDSIC INSTALL SECTIONALIZING DEVICE			-4%			0%
MX86	47751	TDSIC INSTALL SECTIONALIZING DEVICE			2%		-	0%
MX86	47870	TOSIC INSTALL SECTIONALIZING DEVICE			31%		-	0%
MX86	47919	TOSIC INSTALL SECTIONALIZING DEVICE			. 0%		-	0%
MX86	4792Z	TOSIC INSTALL SECTIONALIZING DEVICE		1	2%	 -	-	[
ISR64	7525	CS 8647525 Cloverdale North		1	3%		-	6%
I5R64	7548	CS 8647548 Kok Judson Pike 1296			-2%		-	6%
MX86	47921	TDSIC INSTALL SECTIONALIZING DEVICE		1	12%		-	0%
MX86	47531	TDSIC Circuit Sect.			2%		-	0%
ISR64	7498	CS 8547498 Batesville North 1210			1%			0%
MX85	\$7759	TOSIC INSTALL SECTIONALIZING DEVICE			-1%		-	0%
MX86	17797	TDSIC INSTALL SECTIONALIZING DEVICE			-1%			0%
MX75	14345	TOSIC INSTALL SECTIONALIZING DEVICE		·	3%			3%
MX86	17918	TOSIC INSTALL SECTIONALIZING DEVICE			-35%	 -		
AAVR6	17802	TOSIC INSTALL SECTIONALIZING DEVICE			-35%			0%
15964	1646	CS 8647646 Parpard 1301			14			0%
15804	7764	CS 8647648 Barnard 1201		-	176	 r		0%
N/A00	+7704	TOSIC INSTALL SECTIONALIZING DEVICE			10%	 · · · ·		
MARG-	*7003	TOSIC INSTALL SECTIONALIZING DEVICE			0%	-		04
W786	47668	TOSIC INSTALL SECTIONALIZING DEVICE		-	47.		· ·	0%
NIX85	47569	IDSIC INSTALL SECTRIMALIZING DEVICE			0%			0%
WA38	18094	CIRCUIT SECTIONALIZATION=WESTFIELD			0%	 		
MX85	1/833	IDSIC INSTALL SECTIONALIZING DEVICE			9%			0%
MX86	1/849	IDSIC INSTALL SECTIONALIZING DEVICE		-	-2%	· · ·		
MX86	\$7812	TDSIC INSTALL SECTIONALIZING DEVICE		-	7%	-		
MX86	\$7763	TOSIC INSTALL SECTIONALIZING DEVICE		-	7%		-	0%
MX86-	\$7699	TDSIC INSTALL SECTIONALIZING DEVICE		-	3%			-4%
MX86	17564	TDSIC INSTALL SECTIONALIZING DEVICE			-3%		-	0%
MX86	17639	TDSIC INSTALL SECTIONALIZING DEVICE			-1%		-	0%
ISR643	1558	CS 8647558 NM 9th St 1223			3%		•	0%
MX86-	17561	TDSIC INSTALL SECTIONALIZING DEVICE			-2%		-	0%
MX864	17869	TDSIC INSTALL SECTIONALIZING DEVICE			1%		-	0%
MX86	17887	TDSIC INSTALL SECTIONALIZING DEVICE			3%			0%
MX864	17648	TDSIC INSTALL SECTIONALIZING DEVICE	·		7%			0%
MX864	17640	TDSIC INSTALL SECTIONALIZING DEVICE		-	0%		-	0%
158647	509	CS 8647509 Brookville 1203			-4%			0%
MX864	17553	TDSIC INSTALL SECTIONALIZING DEVICE			-1%			0%
MX864	17889	TDSIC INSTALL SECTIONALIZING DEVICE			-1%			0%
MX864	17740	TDSIC INSTALL SECTIONALIZING DEVICE			0%		-	0%
MX864	7830	TDSIC INSTALL SECTIONALIZING DEVICE			0%			-3%
MX864	7670	TDSIC INSTALL SECTIONALIZING DEVICE			1%			
MX872	3633	TDSIC INSTALL SECTIONALIZING DEVICE		-	0%		-	
MX86-	7554	TDSIC INSTALL SECTIONALIZING DEVICE			-39%	 		-407%
MX864	17826	TDSIC INSTALL SECTIONALIZING DEVICE			0%		-	0%
MX864	17749	TDSIC INSTALL SECTIONALIZING DEVICE			2%			0%
MX86/	17724	TDSIC INSTALL SECTIONALIZING DEVICE			0%		-	0%
158642	545	LS 8547545 Washington St			22%			68%
MYR64	7676	TDSIC INSTALL SECTIONALIZING DEVICE			-\$24%			-1007%
	17731	TDSIC INSTALL SECTIONALIZING DEVICE			-4%			61%
	17695	TOSIC INSTALL SECTIONALIZING DEVICE			27%			73%
háygo.	17645	MYCONU CIRCUIT SECTIONALIZATION-RAL			2//0			95%
MX864	1/043	INVICONVICINGUIT SECTIONALIZATION BAI			34%			65%

PETITIONER'S	EXHIBIT 1-E (CMH)

									URC Cause No.	14720 TDSIC-9
	158647522	CS 8647522 Clinton 1202				6%				46%
	ISR647526	CS 8647526 Conn 12th St 1231				30%				99%
	I5R647530	CS 8647530 Conn Southeast 1205				-1388%				-83491%
	MX8647588	TDSIC INSTALL SECTIONALIZING DEVICE				-9%				100%
	MX8647589	TDSIC INSTALL SECTIONALIZING DEVICE	-			18%				-256%
	MX8647666	TDSIC INSTALL SECTIONALIZING DEVICE				-7%				100%
	MX8647667	TDSIC INSTALL SECTIONALIZING DEVICE	1			48%				72%
	MX8647585	TDSIC INSTALL SECTIONALIZING DEVICE	1			-48%				21%
	MX8647689	TDSIC INSTALL SECTIONALIZING DEVICE				13%				-421%
· · · · · · · · · · · · · · · · · · ·	MX8647744	TDSIC INSTALL SECTIONALIZING DEVICE				-21%				36%
	MX8647748	TDSIC INSTALL SECTIONALIZING DEVICE				-14%				59%
**************************************	MX8647777	TDSIC INSTALL SECTIONALIZING DEVICE				13%				47%
	MX8647798	TDSIC INSTALL SECTIONALIZING DEVICE				44%				83%
	MY8647813	TOSIC INSTALL SECTIONALIZING DEVICE				Sec.				.72%
	MY8547814	TDSIC INSTALL SECTIONALIZING DEVICE				-9%				-73%
- · · · · · · · · · · · · · · · · · · ·	MX8647837	TOSIC INSTALL SECTIONALIZING DEVICE				-578				-5176
	MX8647883	TOSIC INSTALL SECTIONALIZING DEVICE				58%				-37%
	MX8647884	TOSIC INSTALL SECTIONALIZING DEVICE				-26%				-2774
	A4Y8647003	TOSIC INSTALL SECTIONALIZING DEVICE				-20%				73%
	A4V0901712	TOSIC INSTALL SECTIONALIZING DEVICE				476				/174
	MAND647501	TOSIC INSTALL SECTIONALIZING DEVICE				10%				-807e
	WIX8647691	IDSIC INSTALL SECTIONALIZING DEVICE			 					
P	13864/366	CS 8647566 industrial Par							•	
	100000000	NUCONDUCT 6 30- DUCTOR TION AUTOM				2%				-8%
sen-nealing (earns	WA8251688	MACONV-SHT#28" DISTRIBUTION AUTOM				2%			•	0%
······	MX8615359	IDSIC INSTALL OF SELF REALING NEW IW								2%
	MX4476534	Self-Healing Team 31 :: Carmel				-23%				6%
	MX4476899	Self-Healing Learn 41 :: Bloomfield				21%		-	-	
	MX8615360	TDSIC INSTALL OF SELF HEALING NEW IW				-28%				/4%
	MX4476757	Self-Healing Leam 40 :: Bedford Fre				-19%				81%
	MX8615356	TOSIC INSTALL OF SELF HEALING NEWTW				-29%				71%
	MX8615361	TOSIC INSTALL OF SELF HEALING NEWTW				-14%				55%
Self-Healing Teams Total						-15%				47%
Surface Mounted Equipment Follow-up (SMEI)	SMEUIN	SMEI Indiana				100%				98%
	ISSSMF	Line Pat SMEI Insp Repi-TDSIC			 -					
	IPADINSX	OM Padmount Inspections			-					
	ISSD1PH	1 PH Transformer Replace Dry-TDISC			-					
	ISSD3PH	3 PH Transformer Replace Dry-TDISC			 -					
	ISSO1PH	1 PH Transformer Replac Leak-TDISC								
	ISSO3PH	3 PH Transformer Replac Leak-TDISC								
	MX5790438	TOSIC SMEI 2019 NON PRIORITY REPLAC			-				-	
Surface Mounted Equipment Follow-up (SMEI) Total						6%	·			46%
Three Phase Switch Replacement	MX3707521	TDSIC REPLACEMENT OF 3 PH SWITCHES			-				-	
	MX8621252	TDSIC REPLACEMENT OF 3 PH SWITCHES			-					
	MX8621279	TDSIC REPLACEMENT OF 3 PH SWITCHES			-				-	
	MX8620059	TDSIC REPLACEMENT OF 3 PH SWITCHES			-				-	
Three Phase Switch Replacement Total										
Ungrounded 34.5 KV Delta Capacitor Bank Oil Switch	MX2175580	TDSIC-REPLACE UNGROUNDED 34.5kV DE							-	
	MX2175255	TDSIC-REPLACE UNGROUNDED 34.5kV DE								
Ungrounded 34.5 KV Deita Capacitor Bank Oli Switch Total				•	-			-		
Underground Cable Replacement	MX2372869	UG Primary Cable Replacement; Mark				1%			-	0%
	ISR415621	UGC 8415621 Rogers 1203 2				1%				0%
	MX4008659	TDSIC REPLACEMENT OF PRIMARY UG 1/0				-18%			-	
	158670516	UGC 11670516 Hyde Park Subd				-21%				0%
		· · · · · · · · · · · · · · · · · · ·			 					



							PE	TIONER'S EXHI	NT 1-E (CMH)
							1	URC Cause No. 4	4720 TDSIC-9
Underground Cable Replacement Total						11%			75%
Underground Cable Injection	ISSUCINJ	Res Cable Injection - TDSIC			-				
	I5U651401	UG 8651401 URD 132-2624		1	-				
Underground Cable Injection Total			-		-			-	
Capacitor Automation (Non-IVVC and IVVC)	CAPAUTOIN	Capacitor Automation - Indiana				100%			100%
	ISSCAPAT	Capacitor Automation - TDSIC			-				
	MX8269326	MXCONV-CAPACITOR AUTOMATION - DANVI	-		-				
Canacitor Automation (Non-JVVC and IVVC) Total						9%			45%
Circuit Conditioning Canacitor	MX9169448	TOSIC ANALYZING CIRCUIT CAP AND IMP				0%			0%
	150169440	CAP 9169440 Dillman Rd 1242				0%		-	0%
	150990970	CAP 8990970 New Castle "I				11%		-	0%
	MX9169472	TOSIC ANALYZING CIRCUIT CAP AND IMP				0%		-	0%
	15/169/199	CAT 9169439 BLAA Dillmon P				0%			0%
	MY9169509	TOSIC ANALYZING CIRCUIT CAR AND IMP		-	1	-5%			0%
	MX1289521	CIRCUIT CONDITIONING CARACITOR CLIN				394			0%
	MAI200351	TOSIC ANALYZING CIRCUIT CAR AND IMP				376			0%
	160100432	SECAD D160426 Courses Ala				2/5			0%
	150169476	SSUAP 9169476 Seymour Air				170			0%
	WX8251017	MIXCONV-CIRCUIT CONDITIONING CAPACIT				-170	,	···· · · · · · · · · · · · · ·	076
	150383905	CAP 8383905 Honey Creek 1278			-	U76			
	MX9169510	IDSIC ANALYZING CIRCUIT CAP AND IMP				0%			0%
	MX9169496	TOSIC ANALYZING CIRCUIT CAP AND IMP				0%		-	
	MX9169514	TDSIC ANALYZING CIRCUIT CAP AND IMP				-7%		-	0%
	MX9169504	TDSIC ANALYZING CIRCUIT CAP AND IMP			· ·	0%		-	0%
	MX9169547	TDSIC ANALYZING CIRCUIT CAP AND IMP			· · · ·	0%		-	0%
	MX1818862	CIRCUIT CONDITIONING CAPACITOR~GREE				-1%		-	0%
	MX1819231	CIRCUIT CONDITIONING CAPACITOR~CAYU			•	0%		-	
	MX5221066	CIRCUIT CONDITIONING CAPACITOR~BLOO				-1%		•	0%
	MX9169533	TDSIC ANALYZING CIRCUIT CAP AND IMP				-2%		-	0%
	MX9169538	TDSIC ANALYZING CIRCUIT CAP AND IMP			-	0%	·		0%
	MX9169495	TDSIC ANALYZING CIRCUIT CAP AND IMP			-	0%			
	MX9169544	TDSIC ANALYZING CIRCUIT CAP AND IMP			-	0%	·	-	
	MX9169527	TDSIC ANALYZING CIRCUIT CAP AND IMP				2%			-10%
	MX9169536	TDSIC ANALYZING CIRCUIT CAP AND IMP				. 0%			-25%
	MX1819160	CIRCUIT CONDITIONING CAPACITOR~BROO							0%
	MX9169540	TDSIC ANALYZING CIRCUIT CAP AND IMP				-1%			0%
	MX9169497	TDSIC ANALYZING CIRCUIT CAP AND IMP				-1%	-		
	MX9169507	TDSIC ANALYZING CIRCUIT CAP AND IMP				-1%			
	MX9169525	TDSIC ANALYZING CIRCUIT CAP AND IMP				7%		-	0%
	MX9169518	TDSIC ANALYZING CIRCUIT CAP AND IMP			-	0%			
	MX9169502	TDSIC ANALYZING CIRCUIT CAP AND IMP				0%		-	0%
	MX1818968	MXCONV-CIRCUIT CONDITIONING CAPACIT				1%			0%
	MX1818930	CIRCUIT CONDITIONING CAPACITOR-GREE			-	0%			0%
	MX1818899	CIRCUIT CONDITIONING CAPACITOR "GREE				0%		-	0%
	MX1819199	CIRCUIT CONDITIONING CAPACITOR~BBOD				0%			0%
· · · · · · · · · · · · · · · · · · ·	MX1819076	CIRCUIT CONDITIONING CAPACITOR~BBOO				0%			0%
· · · · · · · · · · · · · · · · · · ·	MX9169489	TOSIC ANALYZING CIRCUIT CAP AND IMP				0%			0%
	MX 18 18478	CIRCUIT CONDITIONING CAPACITOR GREE				0%			0%
	MAY9169534	TOSIC ANALYZING CIRCUIT CAP AND IMP				71			30%
	MA2102334	TOSIC ANALYZING CIRCUIT CAP AND IMP				7%			37% 80%
1.1.1.1 ^{2.0} .1.1.1.1	MAY1919410	CIRCUIT CONDITIONING CARACITOP~G955				-276			0.9%
	UEC160469	CARDING CONDITIONING CAPACITOR GALL				-34%			70%
	DJC109408	CIRCUIT CONDITIONING CARACITOP/C955				276			79%
	MA101031/	CIRCUIT CONDITIONING CAPACITOR GREE				-1234			500
	[WA1010210	CIRCOTI CONDITIONING CAPACITOR GREE				-152%			36 %

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								PET	TTIONER'S EXHIB	{T 1-E (CMH)
								E C	URC Cause No. 44	720 TDSIC-9
	MX1818544	CIRCUIT CONDITIONING CAPACITOR "GREE				12%				99%
	MX1818617	CIRCUIT CONDITIONING CAPACITOR "NORT				5%				51%
	MX1818736	CIRCUIT CONDITIONING CAPACITOR "NORT				4%				-7%
	MX1818883	CIRCUIT CONDITIONING CAPACITOR "GREE				16%				100%
	MX1819000	CIRCUIT CONDITIONING CAPACITOR~BROO				15%				-14%
	MX1819042	CIRCUIT CONDITIONING CAPACITOR BROO				100%				-122%
	MX9169471	TDSIC ANALYZING CIRCUIT CAP AND IMP				16%				68%
	MX9169492	TDSIC ANALYZING CIRCUIT CAP AND IMP	1			-3%				63%
	MX9169493	TDSIC ANALYZING CIRCUIT CAP AND IMP	1		-	-21%				-79%
	MX9169494	TDSIC ANALYZING CIRCUIT CAP AND IMP				-27%				-73%
	MX9169511	TDSIC ANALYZING CIRCUIT CAP AND IMP				100%				100%
	MX9169541	TOSIC ANALYZING CIRCUIT CAP AND IMP				-3%				-23%
	MX2821518	CIRCUIT CONDITIONING CAPACITOR ~81.0								
Circuit Conditioning Canacitor Total	1010003310					-1%		_		7%
Circuit Conditioning Regulator	159159790	REC 0160700 Narbuille 1711	1			0%				095
Circuit conditioning negation	158169771	REG 9169771 Col South 1271			-	-11%				0%
	MY9169789	TOSIC ANALYZING CIRCUIT REG AND IMP			-	-11%				0%
	MX9169807	TOSIC ANALYZING CIRCUIT REG AND IMP			-	4%				0%
	158169788	SSRC 9169788 Land 1204				476				0%
	A4V0150202	TODIC ANALYZING CIDCUIT DEC AND MAD				8%				0%
	160100705	IDSIC ANALIZING CIRCOTI REG AND IMP			-	076				076
	156169788	REG 0160783 Keb Teles 0265				376	}		-	0%
	158169782	REG 9169782 Kok 10by Pike 1266				-476		•		
	158169802	RG 9169802"TH SOUTH POLE				-100%			•	
	MA1288918	WO ACTIVE CIRCUIT CONDITIONING "CL			-	-2%				075
	MX9169814	IDSIC ANALYZING LIRCOTI REG AND IMP				4%			•	0%
	ISR169794	SSREG 9169794 Seymour Air				-1%				-5%
	MX9169822	IDSIC ANALYZING CIRCUIT REG AND IMP			· · · ·	0%				0%
	MX1805/41	CIRCUIT CONDITIONING REGULATOR GREE			-	-5%			-	0%.
	MX9169851	IDSIC ANALYZING CIRCUIT REG AND IMP			-	3%				83%
	MX1805675	CIRCUIT CONDITIONING REGULATOR*GREE			-	-7%				/3%
	MX1805699	CIRCUIT CONDITIONING REGULATOR "GREE				-5%				//%
	MX1805781	CIRCUIT CONDITIONING~REGULATOR~BROO				23%				81%
	MX1805809	MXCONV-(WO ACTIVE) CIRCUIT CONDITIO				31%				78%
	MX9169777	MXCONV-CIRCUIT CONDITIONING REGULAT				-41%				97%
	MX9169778	TDSIC ANALYZING CIRCUIT REG AND IMP				-24%				100%
	MX9169812	TDSIC ANALYZING CIRCUIT REG AND IMP				25%				72%
	MX9169813	TOSIC ANALYZING CIRCUIT REG AND IMP				-9%				14%
Circuit Conditioning Regulator Total						-2%				16%
Circuit Conditioning Reconductor	I5R170178	SSREC 9170178 Seymour Air			_	27%			-	0%
	MX5196591	TDSIC ANALYZING CIRCUIT CONDUCTOR A				-9%			-	
	MX2363165	MXCONV-CIRCUIT CONDITIONING RECONDU				2%				-2%
	MXA060102	CIRCUIT CONDITIONING RECONDUCTOR~SE				1%			-	0%
	MX9170193	TDSIC ANALYZING CIRCUIT CONDUCTOR A				3%				0%
	[ISC170186	REC 9170185 TH South 1202				-11%-				-69%
	MX0883702	CIRCUIT CONDITIONING~CLINTON 69~12				1%				-4%
	MX9170240	TDSIC ANALYZING CIRCUIT CONDUCTOR A				19%				25%
	MX9170222	TOSIC ANALYZING CIRCUIT CONDUCTOR A	-	-					-	
	MX9170237	TDSIC ANALYZING CIRCUIT CONDUCTOR A				61%				92%
	MX8159813	TDSIC ANALYZING CIRCUIT CONDUCTOR A				19%				70%
	MX9170196	TDSIC ANALYZING CIRCUIT CONDUCTOR A				2%				49%
	MX9170209	TDSIC ANALYZING CIRCUIT CONDUCTOR A				0%				34%
	MX9170214	CIRCUIT CONDITIONING RECONDUCTOR~GR				-17%				39%
	M4V0170724	TOSIC ANALYZING CIRCUIT CONDUCTOR A				52				118

PETITIONER'S EXHIBIT 1-E (CMH)
IURC Cause No. 44720 TDSIC-9
TURC Cause No. 44720 1031C-9

								URC Cause No. 4	44720 TDSIC-9
	MX9170238	TOSIC ANALYZING CIRCUIT CONDUCTOR A			-3%				-118%
	MX9170245	TDSIC ANALYZING CIRCUIT CONDUCTOR A			86%				58%
Circuit Conditioning Reconductor Total					4%				17%
Line Voltage Regulator Controls Replacement	MX8622525	TDSIC REPLACE ANALOG VOLTAGE REG CO			31%			- 10	1
	MX8622527	TDSIC REPLACE ANALOG VOLTAGE REG CO		-	0%			-	
	ISL621525	LVR 8621525 Dillman Rd 1242			0%			-	05
	MX8621546	MXCONV-LINE VOLTAGE REGULATOR CONTR		-	0%			-	05
	MX8621531	MXCONV-LINE VOLTAGE REGULATOR CONTR		-	0%		-		
	I5L621532	LVR 8621532 Dillman Rd 1243		-	0%	-	-		
	ISL621523	LVR 8621523 Dillman Rd 1242			-28%				
	151,621530	LVR 8621530 Dillman Rd 1243		-	0%				
	MX8622053	TDSIC REPLACE ANALOG VOLTAGE REG CO		-	0%			-	05
	MX8622050	MXCONV-LINE VOLTAGE REGULATOR CONTR			1%		-	-	
	151621529	LVR 8621529 Dillman Rd 1243		-	0%			-	
	151621570	LVR 8621570 Princeton 1204			51%				100%
	MX8622052	TDSIC REPLACE ANALOG VOLTAGE REG CO		-	0%				69
	MX8621544	MXCONV-LINE VOLTAGE REGULATOR CONTR			0%			-	69
	MX8622054	TDSIC REPLACE ANALOG VOLTAGE REG CO	~~~~		20%			-	0%
	MX8623044	TDSIC REPLACE ANALOG VOLTAGE REG CO			0%			-	09
	MX8623043	TOSIC REPLACE ANALOG VOLTAGE REG CO			74%				
· · · · · · · · · · · · · · · · · · ·	MY8622528	TOSIC REPLACE ANALOG VOLTAGE REG CO			0%			-	03
	MX8622274	TDSIC REPLACE ANALOG VOLTAGE REG CO			0%		-		
	MX8623045	TDSIC REPLACE ANALOS VOLTAGE REG CO			84%				03
· · · · · · · · · · · · · · · · · · ·	MX8622288	TOSIC REPLACE ANALOG VOLTAGE REG CO			0%				02
	MX8622289	TDSIC REPLACE ANALOG VOLTAGE REG CO			0%				03
	MX0022209	TOSIC REPLACE ANALOG VOLTAGE REG CO			0%				0*
	MX8622230	TOSIC REPLACE ANALOG VOLTAGE REG CO			0%				
	MX8622250	TOSIC REPLACE ANALOG VOLTAGE REG CO			0%		-		
	MX8622255	TOSIC REPLACE ANALOG VOLTAGE REG CO	-		0%				04
	MYRC12265	TOSIC REPLACE ANALOG VOLTAGE REG CO			0%			-	07
	MANRC11102	TOSIC REPLACE ANALOG VOLTAGE REG CO			1.4%				
	AAVECTITIE	TDSIC REPEACE ANALOG VOLTAGE REG CO			50/			1	
	A498633539	TDSIC REPLACE ANALOG VOLTAGE REG CO			0%				
	MX8622323	TDSIC REPLACE ANALOG VOLTAGE REG CO			0%				0.
	A4V86322273	TDSIC REPLACE ANALOG VOLTAGE REG CO			10%				059
	11/1/0022272	TOGIC REPORCE ANALOG VOLTAGE REG CO			10%				1005
	MAB022291	TOSIC REPORCE ANALOG VOLTAGE REG CO			376				1007
	IVIA0022292	IDSIC REPLACE ANALOG VOLTAGE REG CO			275				1005
· · · · · · · · · · · · · · · · · · ·	MIX0243313	INTEG LINE VOLTAGE REGODITION CONTRO			2176				047
	MA4037302	UNE VOLTACE RECULATOR CONTROL RED			30%				1009
	MAJO41732	TOSIC REPLACE ANALOC VOLTACE REG CO			30%				2007
	WIX8622275	TOSIC REPLACE ANALOG VOLTAGE REG CO			-3976				1000
	WIA8622294	IDSIC REPEACE AWALOG VOLTAGE REG CO			-20176				1007
Line Voltage Regulator Lontrois Replacement Total	1000000	TOCIC MICTALL VIOLTECT LINE CONTORE			10%				3/7
Line voltage sensors	WX8646907	TOSIC INSTALL VOLTAGE LINE SENSORS		-	0%				
	WX8646766	TUSIC INSTALL VOLTAGE LINE SENSORS			3%				
	11/1X8646692	TUSIC INSTALL VOLTAGE LINE SENSORS			-2%		· · ·	· · ·	t
	MX6360346	INEW-MACONV-END LINE VOLTAGE SENSOR			8%,			·	
	MX2856441	TUSIC INSTALL VOLTAGE LINE SENSORS			-11%			•	09
	IMX8646875	TDSIC INSTALL VOLTAGE LINE SENSORS		-	0%			· ·	09
	MX2854618	IDSIC INSTALL VOLTAGE LINE SENSORS			-2%			-	69
	MX6358304	NEW- MXCONV-END LINE VOLTAGE SENSOR		•	0%			-	09
	MX8646544	IDSIC INSTALL VOLTAGE LINE SENSORS			14%		-	-	L
	MX8646917	IDSIC INSTALL VOLTAGE LINE SENSORS		-	0%			-	0%

T 1-E (CMH)	TITIONER'S EXHIB	PET					
728 TDSIC-9	URC Cause No. 44					TORIC INICTALLY VOLTAGE LINE SEALCORS	havec acen
		-	0%	<u> </u>		TOSIC INSTALL VOLTAGE LINE SENSORS	WIA804887
0%			0%	· · · · · · · · · · · · · · · · · · ·		INFUR ANCONVEND LINE VOLTAGE SENSORS	WIX084870
		· · ·	07%			TREW- MACONV-END LINE VOLTAGE SENSOR	WX853708
		·	0%	-		TOSIC INSTALL VOLTAGE LINE SENSORS	MABG4008
			0%			TOSIC INSTALL VOLTAGE LINE SENSORS	WAB64659
			0%	-		ADSIC INSTALL VOLTAGE LINE SENSORS	WABB4667
0%			0%	-		MACONV-END LINE VOLTAGE SENSORS 'DAP	WAD62118
			0%	-		VIS 8646548 New Lastle 1222	154646348
	-		0%		·	VLS 8646505 CIRCINNAU ST 1218	13V646503
			0%	-		VLS 8646582 Lafayette 1203	157646582
	· · · · · · · · · · · · · · · · · · ·	-	-2%			MXCONV-END LINE VULTAGE SENSORS-CLA	MX873600
0%			1%			MXCONV-END LINE VOLTAGE SENSORS**CLA	MX8/35114
			0%	-		IDSIC INSTALL VOLTAGE LINE SENSORS	MX864674.
	· · · ·	-	12%			TDSIC INSTALL VOLTAGE LINE SENSORS	MX864577
0%	-		2%		· · · · · · · · · · · · · · · · · · ·	TDSIC INSTALL VOLTAGE LINE SENSORS	MX864677
0%	-		0%	-		TDSIC INSTALL VOLTAGE LINE SENSORS	MX8646588
0%	•		0%	-		TDSIC INSTALL VOLTAGE LINE SENSORS	MX8646791
0%	•		0%	-		TDSIC INSTALL VOLTAGE LINE SENSORS	MX854679
0%	-		0%	· •		TDSIC INSTALL VOLTAGE LINE SENSORS	MX8646884
0%		· · · · ·	0%	-		TDSIC INSTALL VOLTAGE LINE SENSORS	MX8646796
	-	-	13%			TDSIC INSTALL VOLTAGE LINE SENSORS	MX8646458
100%			6%	-		TDSIC INSTALL VOLTAGE LINE SENSORS	MX864568
0%			6%			TDSIC INSTALL VOLTAGE LINE SENSORS	MX864658
		-	0%	-		TDSIC INSTALL VOLTAGE LINE SENSORS	MX942337
	-	-	0%	· · ·		NEW- MXCONV-END LINE VOLTAGE SENSOR	MX6358355
0%	-		-7%			NEW- MXCONV-END LINE VOLTAGE SENSOR	MX635726
0%			-1%			MXCONV-END LINE VOLTAGE SENSORS~VIN	MX9304978
	-	-	0%	-		TDSIC INSTALL VOLTAGE LINE SENSORS	MX8646765
0%	•		-1%			NEW- MXCONV-END LINE VOLTAGE SENSOR	MX6357296
		-	9%			TDSIC INSTALL VOLTAGE LINE SENSORS	MX8646625
		-	0%			TDSIC INSTALL VOLTAGE LINE SENSORS	MX864668
0%	- 1		5%			VLS 8646540 Hanover 1233	15V646540
0%	-		17%			VLS 9425959 East 25th St 1242	I5V425959
0%	-		16%			VLS 8646614 Oakland City	I5V646614
			10%			TDSIC INSTALL VOLTAGE LINE SENSORS	MX8646644
	-		11%			NEW- MXCONV-END LINE VOLTAGE SENSOR	MX6358988
			-3%			END LINE VOLTAGE SENSORS~SEYMOUR 13	MX2852810
			-5%			TDSIC INSTALL VOLTAGE LINE SENSORS	MX8646902
0%	-		0%	-		TDSIC INSTALL VOLTAGE LINE SENSORS	MX8646587
			-1%			TDSIC INSTALL VOLTAGE LINE SENSORS	MX8646527
			1%			NEW- MXCONV-END LINE VOLTAGE SENSOR	MX6357024
0%	<u> </u>		-1%			VIS 8545447 Hillenbrand 1203	15/646447
0/1				-		VIS 8645626 Recuille 1205	15V646626
0.7			12			VIS 8646445 Hillenbrand 1201	151646445
	+ +		170			VIS 8646572 Highland Park 1216	151646577
	· · ·		3%		and the second	TOSIC INSTALL VOLTAGE LINE CENCORS	137646372
			1~			TOSIC INSTALL VOLTAGE LINE SENSORS	WA884090
U%			1%		· · · · · · · · · · · · · · · · · · ·	TODIC INSTALL VOLTAGE LINE SENSORS	IVIX8646455
	-		3%			TOSIC INSTALL VOLTAGE LINE SENSORS	MX285681
0%	-		0%,	-		TUSIC INSTALL VOLTAGE LINE SENSORS	MX8646618
-336%			-11%			IDSIC INSTALL VOLTAGE LINE SENSORS	MX864678
0%			0%	-		NEW- MXCONV-END LINE VOLTAGE SENSOR	MX6357236
-12%			-4%			1DSIC INSTALL VOLTAGE LINE SENSORS	MX8645918
-54060%			5%			TDSIC INSTALL VOLTAGE LINE SENSORS	MX8646910



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PETITIONER'S EXHIBIT 1-E (CMH)



PETITIONER'S EXHIBIT 1-E (CMH)

			~							10	JRC Cause No. 4	4720 TDSIC-9
	MX8679729	MXCONV-END LINE VOLTAGE SENSORS~CHA						50%				100%
	MX8680646	MXCONV-END LINE VOLTAGE SENSORS~CLA						52%				58%
	MX8737042	MXCONV-END LINE VOLTAGE SENSORS~ CL						57%				69%
Line Voltage Sensors Total								35%				12%
Dist System Costs Assoc with Trans Line Improvements	T1743DL1	Jeffvi138 14kV UG Exits DL - TIN174						4%			-	0%
	MX3737341	Staunton 3-phase StSv Dist-TDISC-TI					-	0%			-	
	MX6851332	69125 Underbuild Line Ident# 892,43				1		-41%				0%
	INGLPR466	GLT 2017 6920 P2 Line 932.41 UB										
	T1802DL1	Brazil 12kV UB DL - TIN1802						-18%				-2%
	MX9870227	BLM Dillman D-Line - TIN2093						6%		í		0%
	MX2425130	DL Switching - W Laf Ribty Upg TDSI						30%			-	
	MX7534477	13845 Underbuild Line Ident# 891.41	· ·			-				_		
	MX3840314	Brkyt Little Cdr. DL TDSIC-TIN2113						-23%				
	MX5740656	Seymour Airport 8D TOSIC - TIN2067	~					1%				0%
	MX5818886	Cavuga 69 TDSIC - TIN2073 - Mobile						0%				
	MX1671679	Kok Toby Pk Bol Swi Add Telerom Di						0%				
	MX6127040	Greenword North Temp Service - TIN1						070				
	MX2488556	GIT 6977 P1 Dist UB Line ID 807.05						2%	,			0%
	MY5351841	Tid Margaret Aug Bibty Ling				-						0/0
	MX6364876	Causes 69 TDS/C - Tie Switch 1202/1						-376				04
	MAX 1007048	Brazil Circuit Svite DEMork TIN19						39/6				0/6
	MAX 2371767	Ti 6020 0x 2 Reid Connel Clanunged						-3/6			-	1.20
	T3118011	ED130 McCammilla UR_TM2111	-					-070				-33%
	IZIIBDLI INCIDRAIC	65170 WIC618WSVIIIE 0B - 111/2118						-476				-50%
	INGEPR416	66LT 2017 923 P2 LINE 823.63 U8	-		-			-5%		-	-	
	MX5566136	GLT 69154 P1 Dist OB Line ID 829 50	-		-		-	0%			-	0%
· · · · · · · · · · · · · · · · · · ·	IVIX 5316865	GLI 6977 GB Ident# 807.80	-					-14%				-114%
	WX3076363	69154 Underbuild Line Ident# 829,50		•		-				•		
	MX9076447	5952 Underbuild Line Ident# 813,44	-					-69%				-603%
	INGLPR490	GLT 59156 Line #813.7 Dist UB (2)						-48%			-	0%
	INGLPR411	GLT 2017 6923 P2 Line 823,66 Dist U						78%				98%
	INGLPR409	GLT 2017 6923 P2 Line 823.62 Dist						10%		-		
	INGLPR461	GLT 2017 6920 P2 Line 857,43 Dist						41%				88%
	MX3228025	Aliendale Ribty Upg TDSIC - TIN 207						17%				-120%
	MX5068147	Odon Ribty DLine Work - TIN2095						26%				-41%
	MX6300376	6985 HE FREEMAN JCT To SPENCER SUB				-						
	MX7075927	Thorntown Ribty Upg - TIN2084						46%				-35%
	MX3770059	Greendale 138kV Grd Sw-UB-TDISC-AMI						-48%		-		
	INGLPR367	GLT SP17 P2 69192 Line#807.51				-						
	MX0883765	Delphi Wells DL Mobile - TIN2082						-2%				2%
	T2087DL1	Replace 3 Distibution Poles - TIN20						-4%				-28%
	INGLPR462	GLT 2017 6920 P2 Line 932.42									~	
	MX3859728	Greenwood Relocate 12kV 2020 work-T										
	MX9906997	Customer Complaint Repeat Outage In										
Dist System Costs Assoc with Trans Line Improvements Total								-6%				-22%
GIS MAPPING	IGISMAP	GIS Systm Updates for TDSIC GridMod	{				-					-13%
GIS MAPPING Total			-	-		-	-					-13%
Grand Total			71.685.689	77.260.653	-	77.260.653	5.574.964	7%	9.716.449	9,128,799	(587.650)	-6%

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 only applied at the Filing Project level.

Summary by Functional Category - D Line Carryover by Project Category In-service 1/1/19 - 12/31/19

					Capital				
		[Actual		Estim	ate	Var	lance]
		Г	2019 In Service		2019 In-Service		2019 In-Service	2019 In-Service	
			investments'	1	investments		investment	investment	
1		Actuals for 2019 In-	Current Year		Current Year	Total Filed	Variance from	Variance from	
Project Category	Distribution Line Details	Service Investments	Carryover Value	2019 Total Actuals	Carryover Estimate	TDSIC-8 Plan	TDSIC-8	TDSIC-8 %	Comments
Distribution System Circuit Improvements	34.5 kV Automation							0%	
	Capacitor Changeout						-	0%	
	Capacitor Cutout/Oil to Vacuum Switch Replacement				-		-	0%	
	Declared Circuits							2%	
	Deteriorated Conductor							0%	
	General Switchgear Replacement							1%	
	Ground Line Pole Replacement (GLT)				-		-	0%	
	Hydraulic Recloser Replacement				-		-	0%	
	Limited Access Road Crossing Upgrade							0%	
	Une Sensors (Stand Alone)	1	-				-	0%	
	Live Front Transformer Replacement							20%	Amount of underspend is immaterial.
	Recloser Controls Upgrades / Replacement							0%	
	Sectionalization							0%	
	Self-Healing Teams							0%	
	Surface Mounted Environment Enflow-un (SMEI)		-	1			-	054	
	Three Phase Switch Renjacement					1		2%	
	Transformer Betrofit				-	-		0%	
	Ungrounded 34 5 KV Delta Capacitor Bank Od Switch							1%	· · · · · · · · · · · · · · · · · · ·
	Linderground Cable Banlacoment							194	
	Underground Cable Intertion							0%	
	Canacitar Automation (Non-BAIC and BAC)							0.0	
	Capacitor Automatici (NOPA VC and IVYC)							478	Encertain actimates for 5 projects ware estimate as
									2010 completion. Onter write changed to 2020
									projectr is actuals leading to a shortfall between
									the action tas from TOSIC-8 and the 2019 actuals
									This issue una isolated to 2019. This would not have
									has assue was bolaced to 2015. This woold not have
									any rate supacts as the actual rises have been been
	Circuit Conditioning Conscion							1794	consistently accounte.
	Carbox contactoring capacitor							27.4	Signational actimates for 6 projects ware estimate as
									2018 completion. Dates ware changed to 2020
									projects in actuals leading to a shortfall between
									the entroton from TOSIC 9 and the 7019 actuals
									This issue way is plated to 2019 This would not have
									any rote imports as the actuals files have been been
									considently accurate
	Circuit Conditioning Rep. Jatar							3154	carcaterity
h	Cirreit Conditioning Recorductor							31%	
	Carbonic Control of the light state of the last							270	1

									Financial estimates for 6 projects were estimate as
									2019 completion. Dates were changed to 2020
									projects in actuals, leading to a shortfall between
									the estimates from TDSIC-8 and the 2019 actuals.
									This issue was isolated to 2019. This would not have
									any rate impacts as the actuals files have been been
									consistently accurate.
1	Line Voltage Regulator Controls Replacement							23%	
									Primary driver for this variance was a reclassification
									of projects from D-line to D-sub. The classifications
									were corrected between TDSIC-8 and TDSIC-9. These
									reclasses would not have any rate impact. True
									variance in carryover is minimal.
	Dist System Costs Assoc with Trans Line Improvements							16%	
Grand Total		108,138,404	-589,154	107,459,726	-208,288	110,415,460	2,955,734	3%	

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					D&M				
			Actual		Estima	ate	Var	fance	
			1			1			
		}	2019 In-Service		2019 In-Service		2019 In-Service	2019 In-Service	
			Investments'		Investments'	i	Investment	Investment	
		Actuals for 2019 In-	Current Year		Current Year	Total Filed	Variance from	Variance from	
Project Category	*Distribution Line Details	Service Investments	Carryover Value	2019 Total Actuals	Carryover Estimate	TDSIC-8 Plan	TDSIC-8	TDSIC-8 %	Comments
Distribution System Circuit Improvements	34.5 kV Automation						-	0%	
	Capacitor Changeout		-		-			1%	
	Capacitor Cutout/Oli to Vacuum Switch Replacement		-		-		-	0%	
	Declared Circuits						-	0%	
	Deteriorated Conductor							. 0%	
	General Switchgear Replacement		-				-	0%	
	Ground Line Pole Replacement (GLT)							0%	
	Hydraulic Recloser Replacement		-				•	0%	
	Limited Access Road Crossing Upgrade						-	0%	
	Line Sensors (Stand Alone)		-				-	0%	
	Live Front Transformer Replacement]		-3%	
	Recloser Controls Upgrades / Replacement		÷					0%	
	Sectionalization						· ·	0%	
	Self-Healing Teams						-	6%	
	Surface Mounted Equipment Follow-up (SMEI)							0%	
	Three Phase Switch Replacement						•	0%	
	Ungrounded 34 S KV Delta Capacitor Bank Oil Switch						-	0%	
	Underground Cable Replacement						•	0%	
	Underground Cable Injection							0%	
	Capacitor Automation (Non-IVVC and IVVC)		-				-	0%	
	Circuit Conditioning Capacitor							5%	
	Circuit Conditioning Regulator							3%	
	Circuit Conditioning Reconductor							0%	
	Line Voltage Regulator Controls Replacement							14%	
									Primary driver for this variance was a reclassification
	1								of projects from D-line to D-sub. The classifications
									were corrected between TDSIC-8 and TDSIC-9. These
									reclasses would not have any rate impact. True
	Dist System Costs Assoc with Trans Line Improvements							20%	variance in carryover is minimal,
	GIS MAPPING		-		· · · · ·		-	0%	
Grand Total		11,455,247	211,097	11,666,344	218,552	11,776,524	110,180	1%	

Details by Functional Category - D Line by Project Category by Project Investments for Projects In-service by 12/31/19

Captiel Estiméte 6M Estimate Faed TUSIC 6 Plan (Related to In-Service Varlann Artual Actual Filed TDSK-8 Pian Ho-Service Prior Year In-Service Total Cur Investments' Value (Re Current Year Service Prior Year In-Se Investments' Current Year Actual vs. Filed TDSIC-8 Piers stual vs. Filed SIC-& Plan
 Indject ID CS
 Project Short Desir CS

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 DAL REPOSISES SPECIAL REPOSISES AND REPO not Year Protect Prior Year Pre tal Co Distribution Line Details 34.5 kV Automation e Val riance 0% 0% 0% NAXI/7248
 13 4 SVA Annumidion Wheetshand East 34
 CAPIN
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 Capacitor Changeout
 Toxic
 Capacitor (IntyRem)
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 Cale Water Wate Capacitor Outosit/Oil to Vacuum Switch Replacement T Declared Circuits 8% 0% 39939939 88 0% 0% 2222222222222222222 121212121212121212 1 Declared Circuits Total Deteriorated Conductor DET 6619952 Towne 6d 1226 DET 6619952 Towne 6d 1226 DET 6619956 Mad McCigan DET 6619956 Midden 7s 1231 DET 6619956 Repland Park DET 6619956 Untrodented Ave 1277 DET 8619956 Untrode Viz 1263 TDSIC-PROACTIVE REPLACEMENT SECTION 50619852 50619855 50619855 50619850 50619850 50619855 /50619858 M0(7217394

Details by Functional Category - D Line by Project Category by Project Investments for Projects In-service by 12/31/19

Image: series of the		,						
And and any of the part of the	O&M	Atial	Cap					
Subscription Participation Pariteipation Pariteipation Pari	Estimato Variance Actual Estimato Variance	Estimato		Actual				
	rd Filed Prior Year In-Service Total Cumulation 1056-0 Plan SIC4 Plan Actual vs. Filed TDSIC-6 Plan Vs. Variance Reservery Value Corport Year Service TDSIC-6 Plan Actual vs. Filed Service TDSIC-6 Plan Vs. Variance Reservery Value Corport Year Service TDSIC-6 Plan Service Vs. Variance Ns. Variance Reservery Value Corport Value Newstments) Insectments] Valuet.	Filed TDSIC-8 Plan A (In-Service TI Investments) ¹ (V.	Totai Cumulativa In- Service Value	Prior Year In-Service Investments' Current Year Carryover Value	Prior Year Project Recovery Value	Project Short Descr C8	Project ID CB	Distribution Line Datails
000000000000000000000000000000000000	015					TDSIC-PROACTIVE REPLACEMENT SECTION	MX8458359	
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National Mathematical						DET 8619859 Conin 30th St 1225	120013823	
Mark Marken Marken Marken Mark Mark Mark Mark Mark Mark Mark Mark	. 0 07-					DE 86 (9856 Maple St 1265	19/0619830	
Mining Production Sold Status	07					Obd Switzbanas U.G. Jaco	SHICINEY	Perendrated Conductor Tetal
392921 SW112521145 WordSide 05 05 MM301454 SUM						SWG 2054720 Chalandle 1429	150054720	eneral switchgear nepiscement
MAGBADD Control (Mole Data Programmer Mole 3.) 0				<u> </u>		SWG 11036021 HE Wandvide	156035921	
Meddodfi EDX: #TALADATE Y W1/10/AA 0 <	- 0%					General Switchess Replacement SG-5	MAX9341564	
0000721 0000721	0 055	/				TDSIC REPLACMENT SWITCHGEAR	MX6600503	
M002498 M0012498 M0012498 M012498	0 0%					SWG 8054721 Clarkoville 1438	I5G054721	
MAX2 1285 100 454 120 Mit 150	0 012					SWG 11025408 Green Valley Rd	156025408	
1964141 Work 4014 More Re1 122	0%					TDSIC REPLACMENT SWITCHGEAR	MX6622856	
Media Ling Media L	- 7%					SWG 8641614 Morse Res 1223	156641614	
M9341271 Genus Sundayse Registerment 5/9 6/6 0 <td>05</td> <td></td> <td></td> <td></td> <td></td> <td>General Switcheest Seplacement SG-1</td> <td>MX9341570</td> <td></td>	05					General Switcheest Seplacement SG-1	MX9341570	
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MAD341134 DDS 200/CIG/CMA REPLACEMENT COULD AND COULD AND AND AND AND AND AND AND AND AND AN	126					SW 8641581 Cumberland Ave	ISG641581	
MM05472 MX005472	45					TDSIC SWITCHGEAR REPLACEMENT	MX3341304	
and 1 Series relations of relations 154 and Line Pole Replicement (GLT) 41/6 BA 15500 P 100 (Gand Line Top D) 15500 P <	75					MXCONV-GENERALSWITCHGEARREPLACEN	MX8054732	
Build Reflex Replicement (QL) 0/04 Replicement (QL) 1000 1000 Bissipping Print impect Based Fold Replicement 0 0 0 Bissipping Print impect Based Fold Replicement 0 0 0 0 Bissipping Print impect Based Fold Replicement 0 <	12							aneral Switchevar Replacement Total
SNUP Constraints	100%					Pole Repl Grid Linz-D	GLPRDIN	round Line Pole Replacement (GLT)
SNUP Point impact Sate of Point spill (SNUP) - - POINT SATE OM Table impact Sate of Point spill (SNUP) - - SNUP Market impact Sate of Point spill (SNUP) - - SNUP Market impact Sate of Point Spill (SNUP) - - SNUP Market impact Sate of Point Spill (SNUP) - - SNUP Market impact Sate of Point Spill (SNUP) - - SNUP Market impact Sate of Point Spill (SNUP) - - SNUP Market impact Sate of Point Spill (SNUP) - - SNUP Market impact Sate of Point Spill (SNUP) - - SNUP Market impact Sate of Point Spill (SNUP) - - SNUP Market impact Sate of Point Spill (SNUP) - - SNUP Market impact Sate of Point Spill (SNUP) - - SNUP Market impact Sate of Point Spill (SNUP) - - Market impact Sate of Point Spill (SNUP) - - - Market impact Sate of Point Spill (SNUP) - - - Market impact Sate of Point Spill (SNUP) - - - Market impact Sate of Point Spill (SNUP) - - - Sate of Point Spill (SNUP) - <td></td> <td></td> <td></td> <td></td> <td></td> <td>Ground Line Insp-D</td> <td></td> <td></td>						Ground Line Insp-D		
IPOURX OPA Pak Inspections IPOURX						Pole Inspect Based Pole Repl-TDSIC	ISSRLP	
High British British British Bisted				· · ·		OM Pole (ospections	IPOUNSX.	
HSPLDTH ON UVP Replace Pel Imp ID TOSC				· · · ·		IX-Emergency Pole Repl, Insp Based	ISSPLEIR	
HSP QLAR Point Replicaments (DLT) Tell	-					Oth UCP Replace Pol Insp FU TDSIC	ISSPLOTH	
usual Ling Shak Replicament [J1] total NB Stable Replicament Shak Replicament Total R4300 rm/Rem Stable Replicament Total A #300 rm/Rem Maid Agestis Replicament Total A #300 rm/Rem Stable Replicament Total B #300 rm/Rem Stable Replicament Total B #300 rm/Rem Stable Replicament Total B #300 rm/Rem Stable Replicament Total D #300				-		Pole Reinforcements TDSIC	ISSPOLRN	
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SSUBS Outrows Reduce Region Ligit	100% -					Redoser Inst/Rem	RCLIN	draulis Recloser Replacement
dradile Relationsmart Trelation						Electronic Reclose Replic-TDSIC	ISSRRR	
http://dxcisit.dk/2004 64203206 64203206 91 91 642042C 004 8520377 A ds 1 0 0 0 0 642042C 004 8520377 A ds 1 0 0 0 0 0 642042C 004 8520377 A ds 14 ds 14 0 0 0 0 0 642042C 004 8520378 A ds 14 dc 15 dc 100055 9 0	-41% -							draulic Recioser Replacement Total
1 0 0 1 0 1 <td></td> <td></td> <td></td> <td></td> <td></td> <td>LAR 3628196 I-65 & Elsenhower</td> <td>ISL628196</td> <td>nited Access Road Crossing Upgrade</td>						LAR 3628196 I-65 & Elsenhower	ISL628196	nited Access Road Crossing Upgrade
Ideg 2002 (2) OM 3500271-026 & 806 /h % 0 0 0 Ideg 2002 (2) Ideg 2002 (2) Ideg 2002 (2) 0 0 0 0 Ideg 2012 (2) Ideg 2017 (2) Ideg 2017 (2) Ideg 2017 (2) 0 </td <td>-</td> <td></td> <td></td> <td></td> <td></td> <td>OM 86280371-74 & SR 1</td> <td>8628037£</td> <td></td>	-					OM 86280371-74 & SR 1	8628037£	
IMV323199 TDSC INTRESTAR ACCESS 600 CMOSS 1005 ISC22177 AM 8572177 / A Rengelin 115 IM0850989 TDSC INTRESTAR ACCESS 600 CMOSS 0 IM0862897 TDSC INTRESTAR ACCESS 600 CMOSS 0 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>OM 36280421-465 & 96th St</td> <td>86280428</td> <td></td>						OM 36280421-465 & 96th St	86280428	
ISU21277 LAB 8271277 LA & Pangin 13 Intel NEGRA ACCESS IEAD CODESS 0 MEDIDONE 01 MEDIDONE 01 MEDIDONE 01 MEDIDONE 01 MEDIDONE 01 MEDIDONE 01 MEDIDONE 00 MEDIDONE 00 MEDIDONE 0 MEDIDONE 0 <td>100%</td> <td></td> <td></td> <td></td> <td></td> <td>TDSIC INTERSTATE ACCESS ROAD CROSSS</td> <td>MX8628199</td> <td></td>	100%					TDSIC INTERSTATE ACCESS ROAD CROSSS	MX8628199	
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IM0531312 TDSC (INTERSTAR ACCESS 600 CNDSS) 015 IM052037 TDSC (INTERSTAR ACCESS 600 CNDSS) 0 IM052037 TDSC (INTERSTAR ACCESS 600 CNDSS) 0 IM052037 TDSC (INTERSTAR ACCESS 600 CNDSS) 0 IM0520377 TDSC (INTERSTAR ACCESS 600 CNDSS) 0 0% IM0520377 TDSC (INTERSTAR ACCESS 600 CNDSS) 0 0% IM0520377 TDSC (INTERSTAR ACCESS 600 CNDSS) 2% 2% IM064 CND1164 (INTERSTAR ACCESS 600 CNDSS) 0 0% 0 INTERSTAR ACCESS 600 CNDSS 0 0% 0 0 INTERSTAR ACCESS 600 CNDSS 0 0 0 0 0 INTERSTAR ACCESS 600 CNDSS 0	0 0%					TDSIC INTERSTATE ACCESS ROAD CROSSS	MX8630899	
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Indextrasts Option (Instantial Recipts Access Acoustication of the second access Access Acoustication of the second	D 0%					TOSIC INTERSTATE ACCESS ROAD CROSSS	MX8628976	
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(MXXXXXY) UDX: (VIXINSTATA ACCESS (GOAD CROSSS) -214 64230422 -004 -004 Intel Access Read Consing Upgrade Total 0 0K Second Cland Alows II UDX: Structure Total 0 Structure Struct Alows II UDX: Structure Structure Total 0 Structure Struct Alows II UDX: Structure Stru	0 0%					IUSIC INTERSTATE ACCESS ROAD CROSSS	MX8628974	· · · · · · · · · · · · · · · · · · ·
Ind Access Read Graving Upgrafe Total 0 Servery Disard Annay UNISSION 7/2 & Property Total / Englisher Total 0 Servery Disard Annay UNISSION 7/2 & Property Total 0 Servery Disard Annay Total 005500 005 Servery Disard Annay Total 05500 00500	-2%					TUSIC INTERSTATE ACCESS ROAD CROSSS	MX8628977	
Intel Access Read Unsing Upgrade total 0K Systems (Stand Alignet Test) 100% Standow (Stand Alignet Test) 100%				ل		UM 86280381-74 & Peppertown Rd	8628038E	
Samoor (Stand Alona Total Units Andre Total Control Total Units Andre Total Units An						11 0 0 00 000	LINE OF LUNA	ited Access Road Crossing Upgrade Total
a Saeony (Stand Alona) Total	100%			· · · ·		Line Sensor Inst for 1PH - 3PH	LINESENIN	e Sensors (Stand Alone)
a Senters (Mand Alega) Total				i		Une Sensors Installations-1P TDSIC	129121	
	-138%			· · · ·				a Sensors (Stand Alone) Total
e Front Transformer Keplacement LVVrKIW Upgrade Live Front Transformer S	15/%					Upgrade Live Front Transformers	LVFROM	e Front Transformer Keplacement
ISSN UVE FOR LIGATORIES RBI-DUC				i		Live Front Transformers Rpic-TDSIC	155818	
				· · · · · ·		NIK 10554135 COLE 25 St 1242	128224132	



Details by Functional Category - D Line by Project Category by Project Investments for Projects in-service by 12/31/19

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Captial Estimate D&M Estimate Prior Year In-Service Touscimant' (Tatal Comunistice Current Yaar Service Carryover Valse Investmentc) Investment) Actual Actual Prior Year In-Son Invostments' Current Year Carryover Value Filed TDSIC-8 Plan (In-Service
 Project D. CB
 Project Short David GB

 DR16500
 C5 516800 Th 2070 S 1231.

 DR16501
 C5 516800 Th 2070 S 1231.

 DR16503
 TDR1 R773 S 1200 S 1231.

 DR165751
 C5 867740 S 1200 S 1231.

 DR175751
 C5 867740 S 1200 S 1231.

 DR175751
 C5 867740 S 1200 S 1231.

 DR1877570
 C5 867740 S 1200 S 1231.

 DR1877570
 C5 867740 S 1200 S 1234.

 DR1877570
 C5 867740 S 1200 S 1234.

 DR1877570
 C5 867757 S 1200 S Actual vs. Filed TDSIC-8 Plan Actual vs. Filed TDSIC-8 Plan Prior Year Project otał Cumulative Prior Year Project Distribution Line Details Varianco % Variance trianco % Varianc -17% 0% +0% 0% 0% 0% 0

Details by Functional Category - D Line by Project Category by Project Investments for Projects In-service by 12/31/19 PETITIONER'S EXHIBIT 1-G (CMH) IURC Cause No. 44720 TDSIC-9

				Actual		Ertimate	1/2	dames	Artual			Entire sta		
	~	·····		Actual	· ····	Exclusio	VA	nanca	Actual		c	Estimato	var	ance
	1						}		1	1	1	Filbd	•	
	1			Prior Year in-Service		Filea				Prior Year In-Service	Total Cumulative	TUSIC-8 Plan		
	1			investments'	i i	TOSIC-8 Plan	Actual vs. Filed			Investments'	Value (Related to In	(Related to In-	Actual vs. Filed	
		1	Prior Year Project	Current Year	Total Cumulative In	(In-Service	TOSIC-8 Plan		Prior Year Project	Current Year	Service	Service	TDSIC-8 Plan	
Distribution Line Details	Project ID C8	Project Short Descr CB	Recovery Value	Carryover Value	Service Value	lovestments)*	Varianco	% Variance	Recovery Value	Carryovor Value	Investments)	[Investments] ⁴	Varianco	% Variance
	MX8647580	TOSIC INSTALL SECTIONAUZING DEVICE						01					-	0%
	MX8647581	TDSIC INSTALL SECTIONAUZING DEVICE						0%	6					0%
	MX\$647827	TOSIC INSTALL SECTIONALIZING DEVICE						05	6					03
	ISR647376	CS 8647376 Toby Pike 1266						26%	()					0%
	158647563	CS 8647563 Russiaville 1256					0	01		-	1			0%
	IS8647551	CS 8647551 Mackey 1221						03:		-				075
	15R647574	SSRSF 8647574 Sandcut						0%					-	0%
	8647368E	eMax #8647368-Circuit Sec							7				-	0%
	15R647542	CS 8647542 Washington St						-1%		-				0%
	15R647378	C5 8647378 Toby Pike 1268						0%			1			0%
	MX8647893	TOSIC INSTALL SECTIONAUZING DEVICE						0%					-	0%
	ISR647384	CS 8647384 New Goshen 1203						0%	1					0%
	MX8647765	TOSIC INSTALL SECTIONAUZING DEVICE						0%	1.		-			0%
	MX8647517	TDSIC INSTALL SECTIONALIZING DEVICE						05						0%
	MX3647865	TDSIC INSTALL SECTIONALIZING DEVICE					(01						03
	MX8647544	TIDSIC INSTALL SECTIONALIZING DEVICE					<u>`</u>	.18						
	MX8647920	TOSIC INSTALL SECTION ANZING DEVICE											-	
	MY8647698	TOSIC INSTALL SECTIONALIZING DEVICE						29						0%
	A4¥8547739	TOSC INSTALL SECTIONAUTIONS DEVICE						09						0%
h	AAVOCATELE	ANCOMU ORCHUT SECTIONALIZATIONNESI						08						01
	AAX8647692	TOSIC INSTALL SECTIONALIZING DEVICE						04						0%
	A4X3783308	COOL INT CCC TION ALL TA TION IN FULL ALL DAMAS						01						01
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· · · · · · · · · · · · · · · · · · ·	100201004	C5 5261634 1H 231H 51 1213						34					-	0.4
	150047313	CS 8047315 CHIPPEWA 1257						070						074
	158647590	C2 8647590 Staunten saus						07						075
	138047330	C3 6047530 KOR JUSSON PIKE 1226					(0%			,		· · ·	0.9
	158647539	558P5 8647539 Fighers 123						17	-				•	075
	158647557	125RF5 8647537 FISRETS*1253						07		· ·				0%
	15/04/543	LS 8647343 Washington St						0%					· ·	0%
· · · · · · · · · · · · · · · · · · ·	MX9153851	TOSIC INSTALL SECTION AUZING DEVICE						0%		· · ·	-			0%
· · · · · · · · · · · · · · · · · · ·	ISK647377	LS 864/3// Toby Pike 126/						0%					•	0%
	10485647564	IDSIC INSTALL SECTIONAUZING DEVICE						07						074
	- MX864/822	IDSIC INSTALL SECTIONAUZING DEVICE		· ·										0%
	158647540	CS 8647540 Gelst 1261						4%					•	0%
	ISR647538	CS 8647538 Fishers 1236						0%		· · · ·			· · · ·	
	ISR647557	CS 8647557 NM 9th St 1221						19					·	0%
	15K647524	CS 8647524 Cloverdale 1221											· · · · ·	0%
	MX8647576	TUSIC INSTALL SECTIONALIZING DEVICE						0%					· · ·	0%
	ISR168835	CS 9168835 TH 25th St 1231						036						0%
	ISR647415	CS 8647415 TH 6th St 1287						0%						0%
	IMX8647516	TOSIC INSTALL SECTIONAUZING DEVICE		· · · ·				4%		· · · ·				0%
	MX8647521	TDSIC INSTALL SECTIONAUZING DEVICE						-85%						139%
	MX8647832	TDSIC INSTALL SECTIONAUZING DEVICE						3%		-			-	0%
	ISR168848	CS 9168848 TH 25th St 1232		· ·				0%						0%
	ISR647501	C5 8647501 Meadow Park 1281		· · · ·			0	0%	·	-			-	0%
	MX8647575	TDSIC INSTALL SECTIONAUZING DEVICE						-25						0%
Sectionalization Total	+							0%						0%
Self-Healing Teams	MX2310410	SOG- SHT # 28" DISTRIBUTION AUTOMAT						0%					•	0%
	MX7240533	SHT # 25" DISTRIBUTION AUTOMATION "BL		. · · ·										
	MX7450745	50G-SHT # 29" DISTRIBUTION AUTOMATI					0	0%		-				0%
	MX2310563	TOSIC INSTALL OF SELF HEALING NEWTW					0	075						0%
	150615357	SH 8615357 Avon East 1202						0%						0%
	ISD614961	SH 8614961 Princeton 1206					. c	0%						0%
	ISD251734	OA 8251734 Webster 1231		-			C	0%						0%

Details by Functional Category - D Line by Project Category by Project Investments for Projects In-service by 12/31/19

PETITIONER'S EXHIBIT 1-G (CMH) IURC Cause No. 44720 TDSIC-9

			Caotia			and a			r —					
			Actual			ptial Estimate			1 1			-delVi		
			Prior Year Project	Prior Year In-Service Investments' Current Year	Total Cumulative In	Filed TDSIC-5 Plan (In-Service	Actual vs. Filed TDSIC-8 Plan		Prior Year Project	Prior Year In-Service Investments' Current Year	Tatal Cumulative Value (Related to In Service	Estimate Filed TDSIC-8 Plan Related to In- Service	Actual vs. Filed TDSIC-8 Plan	ance
Distribution Line Details	Project ID CB	Project Short Descr CB	Recovery Value	Carryover Value	Service Value	Investments ²	Varianco	% Variance	Recovery Value	Carryover Value	Investments)	investments) ¹	Variance	% Variance
	150615929	SH 8615929 Huntington North 1232					0	05						0%
	MX2310502	SOG-SHT # 29~ DISTRIBUTION AUTOMATI					0	01	á					0%
L	MX2320976	TDSIC INSTALL OF SELF HEALING NEWTW		-				0*	6	-			·	0%
·	MX2310619	SOG-SHT # 30~ DISTRIBUTION AUTOMATI		-			0	05	<u> </u>					0%
	MX8614959	TDSIC INSTALL OF SELF HEALING NEWTW		-				01	<u>.</u>	-				0%
	MX3615540	TDSIC INSTALL OF SELF REALING NEWTW		· ·	-			-19		•			•	0%
	MX1/46465	SELF-REALING TEAM 39-BRAZIL*1201						05						05
	150614730	DA 8514/30 Concord Rd 1251			-		0	07		•			·	0%
	MA6015365	TUSC WSTALL OF SELF REALING NEW TW		·				05		· · · · ·			-	03
Self Realing Terms Tatal	120873222	ish 8613933 carmer 146th at						05					· · · ·	0%
Surface Mounted Fooigment Follow-up (SMEI)	SMELON	SMEL Indiana						1035					-	1005
	ISSSME	Line Pat SMELInsn Beni-TOSIC						200						10074
······	IIPAQINSX	OM Padmount Inspections					0							
	ISSD1PH	1 PH Transformer Replace Dry-TDISC												
	ISSD3PH	3 PH Transformer Replace Dry-TDISC			1									
	ISSO 1PH	1 PH Transformer Replac Leak-TDISC		· ·						-	1		1	
	ISSO3PH	3 PH Transformer Replac Leak-TDISC								-				
Surface Mounted Equipment Follow-up (SMEI) Total								-49						50%
Three Phase Switch Replacement	ISD620043	SW 8520043 16th St Jct #1									1			
	ISD521802	SW 8621802 Qana Town #1					0	01		•				0%
	ISD621029	SSOLS 8621029 - 38H SWITC						-10%					-	0%
	15D620054	SW 8620054 Forsythe 1201.												
	MX8621811	TOSIC REPLACEMENT OF 3 PH SWITCHES		·				0%		-			-	0%
	MX8621810	MXCONV-3 PHASE SWITCH REPLACEMENT						05		-			-	0%
	MX8621030	TDSIC REPLACEMENT OF 3 PH SWITCHES						21%					· · · ·	0%
	150621/84	SW 8621/84 - 3 PH SWITCH					0							0%
	150521267	SW 8521267 Hospital #2K 2						-37						0%
	1000021231	TOSIC REPORCEMENT OF 3 PH SWITCHES					U	07	-					0.6
	MAX8621031	TOSIC REDI ACENTENT OF 2 PH SWITCHES					0	235						08
	MX8621275	MYCONV-3 PHASE SWITCH BEPLACEMENT					V	01						0%
	MX8621278	TIDSIC REPLACEMENT OF 3 PH SWITCHES		···			0	01						0%
	MX8621812	TOSIC REPLACEMENT OF 3 PH SWITCHES					0	0%						0%
	150620045	SW 8620045 6th Street JCT					0	01						0%
	MX8621002	TDSIC REPLACEMENT OF 3 PH SWITCHES					0	0%						
	MX8621793	MXCONV-3 PHASE SWITCH REPLACEMENT												
	MX8621033	TDSIC REPLACEMENT OF 3 PH SWITCHES					0	0%					•	0%
	150621015	SSDLS 8621015 Walnut St.						2%						
	MX8621259	TOSIC REPLACEMENT OF 3 PH SWITCHES					0	0%						0%
	MX8620062	TOSIC REPLACEMENT OF 3 PH SWITCHES					0	0%					-	0%
	MX5620063	TDSIC REPLACEMENT OF 3 PH SWITCHES					0	0%					-	0%
Three Phase Switch Replacement Total	CERNIE							-11%					1	0%
Transformer Retrollt	CSPINS	Transformer retrofit IN								in the second se			· ·	
Institution netroit fotar	A 6197772 E 90	TODIC REPLACE UNCOMINIDED 24 SHUDS								<u> </u>	i	· · · · ·		
Ongrounded 34,3 KV Delta Capacitor Bank Oil Switch	MA0723383	TOSIC REPLACE UNGROUNDED 34.5KV DE					0	07						
	MX2230769	TOSIC REPLACE UNGROUNDED 34.589 DE						37						075
Ungrounded 34.5 XV Dalta Canacitor Bank Oil Switch Tax	1	TO ACHER DICE ON ON DON DED 34.5KV DE						14/						
Underground Cable Replacement	158379149	UGC 3379149 Endres Community						69%						074
	ISR989692	UGC 9989692 Clinton St						20%						0%
	ISR506770	UG 10506770 Audobon Park						05						0%
	ISR610595	UGC 10610595 Lafavette Shadeland					0	0%						0%
	158080123	UG 11080123 10200 £ 1200					0	016						0%
													-	



Details by Functional Category - D Line by Project Category by Project Investments for Projects In-service by 12/31/19 PETITIONER'S EXHIBIT 1-G (CMH) JURC Cause No. 44720 TDSIC-9

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Details by Functional Category - D Line by Project Category by Project investments for Projects In-service by 12/31/19



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Details by Functional Category - D Line by Project Category by Project Investments for Projects In-service by 12/31/19

D&M Estimate Filod TDSIC-8 Plan In (Related to In-Service Captial Estimate Actual Actual ice Total Cumulative Value (Related to) Service Filed TDSIC-8 Plan . (In-Service Prior Year In-Se Investments' Current Year Prior Year In-Se Investments' Current Year Carryover Value Actual vs. Filed TDSIC-8 Plan Actual vs. Filed TDSIC-8 Plan Total Cumulative Prior Year Project Prior Year Project Project ID CB Distribution Line Details Underground Cable Replacement Total Underground Cable Injection Project Short Descr CB % Varian

Details by Functional Category - D Line by Project Category by Project Investments for Projects In-service by 12/31/19 PETITIONER'S EXHIBIT 1-G (CMH) IURC Cause No. 44720 TDSIC-9

			Captial								0	6M		
				Actual		Estimate	} Var	ianco	Actual			Estimate	Var	ance
				1	1	1		1				Filed		
	1			Prior Year In-Service		Filed	1	ì		Prior Year In-Service	Total Cumulative	TDSIC-8 Plan		
	Į.			Investments'		TDSIC-8 Plan	Actual vs. Filed	ļ	1	Investments'	Value (Related to In-	(Related to in-	Actual vs. Filed	
	í		Prior Year Project	Current Year	Total Cumulative In	(In-Service	TDSIC-8 Plan		Prior Year Project	Current Year	Service	Service	TDSIC-8 Plan	
Distribution Line Datails	Project ID CB	Project Short Deser CB	Recovery Value	Carryover Value	Service Value	Investments} ²	Variance	% Variance	Recovery Value	Carryover Value	Investments)	Investments) ²	Variance	% Variance
Underground Cable Injection Total				· ·				0%						
Capacitor Automation (Non-IVVC and IVVC)	CAPAUTOIN	Capacitor Automation - Indiana	1	-				99%		-				9834
	ISSCAPAT	Capacitor Automation - TDSIC												
Capacitor Automation (Non-IVVC and IVVC) Total				-				5%						Z0%
Eliccult Conditioning Capacitor	ISC169400	CAP 9169400 Laf South 1236		-			0	0%	1	-				0%
	I5C169390	CAP 9169390 Concord Rd 1251					0	0%					-	0%
	ISC169411	CAP 9169411 Shelbyville 1211		-			0	0%		-			•	0%
	ISC169470	CAP 9169470 Neshville 1211		-	1		0	0%						0%
	ISC169395	CAP 9169396 Laf South 1231	1	-			0	0%		-				0%
	MX9169451	TOSIC ANALYZING CIRCUIT CAP AND IMP			1		0	0%					-	0%
	I5C169423	CAP 9169423 West Lafayette 1222	1	-	1		0	0%						0%
	ISC 169399	CAP 9169399 Laf South 1232		-			0	0%		-			-	0%
	ISC169379	CAP 9169379 Hillenbrand 1201		-	1		0	0%		-				0%
	ISC169381	CAP 9169381 Hillenbrand 1203		-	1		. 0	0%						0%
	MX9169449	TOSIC ANALYZING CIRCUIT CAP AND IMP					0	0%		•				0%
	15C 169427	CAP 9169427 West Lafayette 1225					•	-1%						0%
	MX9169446	TDSIC ANALYZING CIRCUIT CAP AND IMP					0	0%						0%
	ISC169474	SSCAP 9169474 Seymour Air					0	0%					•	0%
	15C169405	CAP 9169405 Rossville 1201						1%		-				0%
	ISC 169391	CAP 9169391 Concord Rd 1252						0%		•				0%
	I5C169393	CAP 9169393 Hanover 1231					0	0%					•	0%
	MX9169485	TDSIC ANALYZING CIRCUIT CAP AND IMP						0%					-	0%
	MX9169478	TOSIC ANALYZING CIRCUIT CAP AND IMP						0%						0%
	MX9169482	TDSIC ANALYZING CROUIT CAP AND IMP					0	6%						0%
	MX9169481	TDSIC ANALYZING CIRCUIT CAP AND IMP						0%						0%
	15C169487	CAP 9169487 Toad Hop 2019					0	0%						0%
	N0X9169479	TUSIC ANALYZING CIRCUTI CAP AND IMP						03						0%
	150165467	CAP 9169467 1392 1203	-					-176						0%
Circuit Conditioning Capacitor Total	150303050	000 0202450 0	-					07						0%
Circuit Conditioning Regulator	158583959	REG 8383959 Northwest 12/1		· ·			0	0%		•			•	076
	128163633	HEC 810393 Hild Worand T	-				0	0%						076
	10710715	REG 9169713 Ranover 1231						3%						0%
	150160726	PEG 9169725 Recruits 170						035						0%
	158169797	RCG 91697871 and 1202						0%		-				0%
	158282957	PEG 9292957 Mandaur Park	-				0	0%						035
	15B169759	CCREG-BLOOMINGTON DILLMAN RD ~174					Ŷ	0%						0%
	ISR169765	REG 9169765 8ratil 1202					0	0%						0%
1 mar	15R169697	REG 9169697 Arcadia 1204					•	24%						0%
	ISR169785	REG 9169785 Lapel 1201					0	0%						0%
Circuit Conditioning Regulator Total		1						3%						0%
Circuit Conditioning Reconductor	ISR417731	REC 8417731 Highland Park	·				0	0%			1			
	ISR170103	REC 9170103 Laf South 123		-				50%		-				40%
	ISR170078	REC 9170078 Laf South 1231			7			49%		•				3%
	45R170110	REC 9170110 Rossville 1205						0%		-				0%
	91700718	OM 9170071 Carmel 146th 1266					0						-	0%
	ISR170059	REC 9170059 Arcadia 1204						0%						0%
	ISR170169	REC 9170169 Lapel 1201						15		-				0%
	15R170170	REC 9170170 Lapel 1202						2%					-	0%
	ISR170172	REC 9170172 Lapel 1204						449						0%
	05C170147	REC 9170147 Brazil 1204						0%		· · · ·			-	0%
	ISR170153	REC 9170153 Clarks Hill 1202						0%						0%
	ISR170171	SSREC 9170171 Lapel, 1203						-11%					*	0%
	DED:: 20070	185C 8520872 Commed 84 12						- C2						

Details by Functional Category - D Line by Project Category by Project investments for Projects In-service by 12/31/19 PETITIONER'S EXHIBIT 1-G (CMH) IURC Cause No. 44720 TDSIC-9



				Armel		ations .					0	*M		
	1	1		Actual		Estimate	Va	riance	Actual			Estimate	Var	iance
	1	1	í				1	1	1			Filed		
	1		ł	Prior Year In-Service		Filed	ļ	1		Prior Year In-Service	Total Comulative	TDSIC-8 Plan		
	1		I	Investments'		IUSIC-8 Plan	Actual vs. Filed	1		Investments'	Value (Related to In	Related to In-	Actual vs. Filed	
Skribution Line Details			Prior Year Project	Current Year	Total Cumulative In-	lin-Service	TDSIC-8 Plan		Prior Year Project	Current Year	Service	Servico	TDSIC-8 Plan	
Distribution Cash Associates	Project ID CB	Project Short Descr CB	Recovery Value	Carryover Value	Service Value	Investments)*	Variance	% Varianco	Recovery Value	Carryover Value	Investments)	Investments) ²	Variance	% Variance
Dist system Costs Assoc with Trans Line Improvements	MX0677758	MX0677758						05		-			-	03
— — — — — — — — — — — — — — — — — — —	MX6549774	69149 Underbuild Line Ident# 825.05						815						100%
	11046DL1	BLM Dunn 6991 UB DL, Rebu						05		-				01
	T1734DL1	Spencer 3448 OL - 3448 Re						0%			1			0%
	INGLPR344	GLT 6960 821.01 Dist UB 2016 TDSIC		-				09						
	T1540DL1	Bethlehem Sub DL Pole - TIN 1540						01		-				
	MX8321617	GLT 69116 804.79 Dist UB 2018											· .	
	MX6850878	69162 Underbuild Line Ident# 834.50		-			(0%	1	-				02
	MX6548709	6928 Underbuild Line Ident# 930.46						51%				3		1002
	T1729DL1	AM 27177612 Covington TIN 1729					(0%				,		00
	MX7817044	Bloomfield Mobile Connection - TIN1						0*		-				0*
	MX6850789	6945 Underbuild Line Ident# 838.43						81%						1002
	MX9341634	Flat Rock D-Line Exit Design Rewrit						0%						100%
	MX9951426	Danville 1231 Overhead Removal DL -		-				0%					· · · · · ·	07
	MX0463753	69166 Ribd Westind Fintown US TDSIC					0	01					· · · · ·	
	T1861DL2	69134 Rbid Imstwn UB Part 2 - TIN18		•			0	05						0,0
	MX1400674	New Goshen Mobile Connections - TIN					0	05					•	
	MX6323441	AM 26323441 UG Cable					0	0%				0	<u> </u>	
	MX8486124	Jeffersvi Potter DL - TIN1744						07				0		
	MX8473426	Arcadia DL Switching-Disconnects -					0	0%			ŕ		-	
	MX6566006	Petersburg Ribty Upg DL Poles - TIN										U		
	MX9242111	Mitchell 69kV Mobile 8 TDSIC DL - T					0	0%			-			0%
	MX9948537	Middletown Rbty Low Side Mobile Set						07				0		
	MX9342008	Columbus E 25th DL Switching -7IN17						074						0%
	MX1619976	Gallagher P C Reio DL Work - AMIN07						07				0	-	
	T17470L1	N Terre Haute Ribty Upg DL Work - T						074				0	-	
	MX9113689	13802 Underbuild Line (dent# 828.02						0%		-		0	-	
	MX1560386	Urbans DL Work - TIN 1821					0	076					-	0%
	MX2171105	Laf Cion Bibty Line Station Service					U U	076				0		
	T15300L1	Shrowl Kok SE Rhid LIB						-25%	_			0		
	158348767	MGC 8348787 Villa In The Wonds						-12%					•	0%
	INGLPR397	GLT 2017 6927 82 Line 827 42 DIST II		· · · ·			0							
	M¥\$637630	5953 (Inderhuld for identit 775 41					0						-	0%
	MX8451869	6975 Str Bek DL LIN - TINISSIA						13%						65%
	MX9077036	69154 Underhuild Line Idents 934 47						14%				0		
	M09338411	Connercuille 30th Street DL Switchi					0	0%		-			· ·	0%
· · · · · · · · · · · · · · · · · · ·	T1833DI 1	Palacata 1251 - TN1822					0	0%				0	-	
[MX1109753	Franklin I are Side Mobile TOSIC - TI					0	0%					-	0%
	MX1984305	Laf Cion Ribry Lloy Di Work - Til 190					0	0%				0		
	T1818011	AM 22561717TH 25th St Diet Suitethan					0	0%		-			-	0%
	14020001	New 2230171714 230131 Dist Switches					0						-	0%
	11281011	6010 Hillshand Anderson U.D. Tituton					0	0%		-				0%
· · · · · · · · · · · · · · · · · · ·	MY7499745	GLT SP17 P2 69491 ins ID 825 01						0%		-				0%
	MAYATTOOOD	1 of 55 Mahila Bula TOPIC TRIDAD					0	0%		-				0%
	A4¥1112735	Adddatager 692 120/19 Deces 2					0	0%				0		
	A4V0004C33	CONFERENCE DOB 12KV US PRISE 2 - 1					0	0%					-	0%
	MA2004533	197135 Underguild Line Ident# 838.56					0	0%						0%
	14442222405	Invanceior & 6988 12XV UB Phase 3 - T						-19%					-	0%
19 Dist Sustain Costs Assess the Toron (In 1	10074303438	In spruce-Temp Mobile-DL-TIN1819					0	0%				0	-	
20.GIS MADDING	s retar							-7%						3%
DO OF MADDING T-1-1	IGISMAP	OD Systm Updates for TDSIC GridMod					ò							0%
Grand Tatal						-	0							0%
			105,135,404	192,218	107,459,726	104,751,120	-2,708,605	-3%	11.455.247	2.187.635	11.666.344	10,229 969	(1 436 374)	-14%

14

Details by Functional Category - D Line by Project Category by Project Investments for Projects In-service by 12/31/19

1. Only includes projects from TDSIC-8 Plan that did go into service in 2019 and excludes carryover estimates and Contingency.

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: <u>Cicely M. Hart</u> Cicely M. Hart

Dated: <u>April 28, 2021</u>