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April 11, 2023

VIA E-PORTAL

Mr. Adam Teitzman, Clerk Office of the Commission Clerk Florida Public Service Commission 2540 Shumard Oak Boulevard Tallahassee, FL 32399-0850

Re: Docket No. 20230029 – GU: Petition for approval of gas utility access and replacement directive, by Florida Public Utilities Company.

Dear Mr. Teitzman:

Attached for filing, please find Florida Public Utilities Company's Responses to Staff's First Data Requests issued in the above-referenced docket on March 30, 2023.

Thank you for your assistance with this filing. As always, please don't hesitate to let me know if you have any questions whatsoever.

Sincerely,

Beth Keating Gunster, Yoakley & Stewart, P.A. 215 South Monroe St., Suite 601 Tallahassee, FL 32301 (850) 521-1706

MEK

Docket No. 20230029 – GU: Petition for approval of gas utility access and replacement directive, by Florida Public Utilities Company.

<u>FLORIDA PUBLIC UTILITIES COMPANY'S RESPONSES TO</u> <u>STAFF'S FIRST DATA REQUESTS</u>

1. Please refer to Florida Public Utilities Company's (FPUC or Utility) petition for approval of gas utility access and replacement directive (GUARD). Please indicate whether or not each of the improvements proposed under FPUC's GUARD program are the result of an official regulatory requirement (such as a requirement from the Pipeline and Hazardous Materials Safety Administration (PHMSA) or other regulatory authority). If so, please identify each requirement and the regulatory authorities that issued each requirement for each proposed improvement. If not, please provide FPUC's perceived justification for each requested improvement.

Company Response:

The specific proposed improvements requested under the FPUC's GUARD program are not the result of an official regulatory requirement but are driven by risks identified under the ongoing FPUC Distribution Integrity Management Program (DIMP), as well as by multiple special DIMP risk assessments performed by an independent outside contractor. Enhancing safety by identifying and reducing pipeline integrity risks is the purpose of the PHMSA 2009 regulatory requirement, "Pipeline Safety: Integrity Management Program for Gas Distribution Pipelines". In addition, in 2011, PHMSA issued a "Call to Action" to accelerate the repair, rehabilitation, and replacement of the highest risk pipeline infrastructure. Although the 2012 FPUC GRIP program focused on eliminating high-risk facilities such as bare steel and cast iron pipe, the FPUC GUARD program will further reduce distribution system integrity risks by eliminating pending threats such as vintage plastic pipe subject to brittle failures (PHMSA 1999 advisory bulletins (ADB-99-01 and ADB-99-02)), inaccessible gas main and gas services that exist in the rear of customer homes, steel pipe with corrosion control challenges, and aging infrastructure. While the Company's systems are safe and adhere to industry standards, this program will ensure that our facilities continue to meet ongoing federal initiatives and appropriately reduce any unnecessary risks to the public due to facilities that are aged or inaccessible.

2. Please identify and provide any studies conducted supporting the need for the proposed GUARD improvements and its benefits to the general body of ratepayers.

Company Response:

The Company's independent outside contractor performed and prepared two different studies. The first was a risk analysis of the existing FPUC facilities of record that exist within the rear lot areas of premises, and the second outlined a risk analysis of the "problematic" and "reliability" facilities of record that pose a heightened risk for breach or failure; and thus, an elevated safety risk as well. The GUARD Program would give FPUC the ability to take proactive measures to enhance the safety and reliability of its system for years to come, and the FPUC customers will benefit from a safer and more reliable natural gas service and a sustainable system for many upcoming decades. More information about these analyses is response Request question 6B and 6C. provided in the to Data

- 3. Please refer to FPUC's petition, paragraph 3, on pages 2 through 3, for the following questions.
 - a. Please explain how the 10-year term was determined for the GUARD program. For each alternative term considered, please explain why it was not selected.
 - b. Please explain how the estimated total GUARD program cost shown in Exhibit 2 of the petition was developed.
 - c. Please provide a table identifying the estimated annual GUARD program costs by each proposed improvement for each year of the 10-year program term.

Company Response:

3A – The Company anticipates that it will be able to complete the work detailed in this filing within the 10-year timespan. After this initial term, the Company wishes to continue to use the program and established reporting methods to include additional projects in the scope of the GUARD as assessments of the systems are completed and projects are identified. This will allow the Company to continue to complete the work in a timely manner in order to keep the system safe without the increased cost of a rate case. As the previously approved GRIP program was a 10-year program, FPUC believes that it is prudent to re-evaluate the GUARD program after a similar 10 year period. While the identification of risk under the Company's DIMP will always be ongoing, an approved GUARD program will substantially improve the risk profile of the Company's system.

3B – The Company utilized historical costs from the GRIP program in order to establish a loaded run rate by proposed improvement type, adjusted for future value for the potential for inflated construction costs that may occur during the 10-year program. The run rate was then extended against the planned scope of replacement each year in order to obtain the total GUARD program cost. For each project type, the Company used the recommendations of the independent outside contractor to determine the anticipated scope of construction work.

3C - A table identifying the estimated annual GUARD program costs by each proposed improvement for each year of the 10-year program term has been provided and is attached as Exhibit ROG 3C - GUARD Program Costs.

While the Company will do its best to adhere to its plan to the best of its ability, the projects filed and completed each year may vary based on a multitude of variables that may or may not

be in the Company's control such as timelines, construction planning, cost of projects, contractor resources, risk factors, or other construction inputs.

4. Please provide a construction timeline detailing anticipated construction activities throughout the 10-year term of the GUARD program.

Company Response:

A program construction schedule identifying the timeline of projects for the 10-year term of the GUARD program has been provided and is attached as Exhibit DR 4 – GUARD Construction Schedule. While the Company will do its best to adhere to its plan to the best of its ability, the projects filed and completed each year may vary based on a multitude of variables that may or may not be in the Company's control such as timelines, construction planning, cost of projects, contractor resources, risk factors, or other construction inputs.

- 5. Please refer to FPUC's petition, paragraph 7, on page 4, for the following questions.
 - a. Please identify all remaining activities under the Utility's current Gas Reliability Infrastructure Program (GRIP). As part of this response, please identify the current status and the estimated completion date for each remaining activity.
 - b. Please identify which components of the GUARD program are currently included under the GRIP.
 - c. Provide the total GRIP investment to date (2012-2023).

Company Response:

5A – The last GRIP project to be completed is the West Palm Beach project. The Company is currently working on coordinating with the City of West Palm Beach and acquiring permits for the project. The Company estimates completing the project by the end of July 2023. The estimated cost of the project is \$170,000.

5B – None of the proposed GUARD projects were included in GRIP program or the recently approved rate case. However, per paragraph 15 of the petition any remaining bare steel, cast iron, and steel tubing services that are discovered that would've been eligible under GRIP will be completed under GUARD as it is discovered.

5C – The total estimated GRIP investment from 2012-2023 is \$203,176,721. This includes the West Palm Beach project in progress and any residual restoration from other GRIP projects.

- 6. Please refer to FPUC's petition, paragraph 8, on pages 4 through 5, for the following questions.
 - a. Please identify the outside contractor utilized, and detail how this contractor was selected. As part of this response, please identify the contractor cost and all alternative contractors considered, if any, along with the associated cost and reason they were not selected for each.
 - b. Please detail the results of the data analysis and risk assessment conducted by the outside contractor.

- c. Please provide a copy of the outside contractor's recommendation and prioritization of facilities that need to be replaced.
- d. Please state if FPUC will seek recovery of the contractor fees. If yes, please explain in which proceeding.

Company Response:

6A – FPUC utilized the services of independent outside contractor "R.J. Ruiz and Associates, Inc." dba "RUIZ" to facilitate the DIMP review of the Company's natural gas facilities of record. The Cost of services for RUIZ fell below the Company's internal procurement policy requirement to issue a bid. This contractor was selected because of their prior relationship with the Company, professional engineering expertise, unique experience, and immense knowledge in natural gas distribution and transmission systems, and in assessing gas distribution system DIMP risk. Key staff members for the contractor have been intimately involved in similar assessments and similar programs for other natural gas utilities in Florida (i.e. the Florida City Gas SAFE program), which was similarly focused on rear easement access projects. Alternative contractors were considered, but RUIZ was the most qualified for the subject matter and scope of this assessment due to his work with other similar programs. The total estimated cost for the services of R.J. Ruiz and Associates is \$40,000.

6B – RUIZ performed a thorough review of the records provided by the Company, collaborated with the Company's Subject Matter Experts to complete data analyses, conducted two different DIMP risk assessments, and developed a DIMP risk ranking model to arrive at the following conclusion: we have high confidence that FPUC's natural gas system is overall safe and reliable, but there are several opportunities for improvement.

The Company currently operates and maintains over four hundred forty-six (446) miles of residential rear lot natural gas distribution mains, of which approximately two hundred thirty-seven (237) miles are at a higher risk of failure. The risk assessments that were completed demonstrate that certain threats do exist on the FPUC natural gas distribution facilities of record located within rear lots of residential homes, and these two hundred thirty-seven (237) miles of gas pipe segments have a higher likelihood of failure and consequence of failure when compared to other rear-lot facilities that FPUC operates.

The Company currently operates over ninety-seven (97) miles of pipe that is at increased risk because it is constructed of material that has been identified as being subject to heighted risk of failure. Approximately seventy-six (76) miles of these facilities are considered to show a moderate-to-high level of risk. The issues that these problematic facility segments show are, among other items, pipeline under buildings, Aldyl-A plastic pipe, difficult to locate plastic pipe due to deteriorated tracer tape or wire, inability to complete multiple inactive service disconnections due to faulty fittings, coated steel pipe with disbondment issues or cathodic protection integrity issues such as stray current or isolated steel, and exposed pipe.

The Company also operates approximately sixty-six (66) "span pipe" segments that also show a considerable level of risk. These are aboveground and exposed pipe segments that are not only

subject to natural force or outside force damage, but also demonstrate historical issues around coating deterioration, sagged pipe and stresses associated with movement.

In addition, twenty-two (22) of the Company's district metering and pressure regulating stations and city gate tap stations also show moderate-to-high levels of risk. Four (4) stations have notable evidence of corroded pipe, equipment and features, while the others show the presence of obsolete equipment currently in-service which presents challenges for maintenance and operations.

6C - A copy of the outside contractor's final engineering reports executive summary and recommendations has been provided as attached Exhibit DR 6C-1 - Ruiz Executive Summary - Rear Lot and Exhibit DR 6C-2 - Ruiz Executive Summary - Problematic.

6D – Similar to the treatment of other engineering, designing and planning construction costs, the Company plans to capitalize the costs of RUIZ. The costs will be included in the initial projects for 2023.

7. Please provide a general description of the locations of proposed GUARD projects to be completed from April 2023 to December 2024.

Company Response:

The Company plans to initially focus on rear lot and problematic pipe replacement projects in the City of Winter Springs, the Town of Lake Park, and at the Village of Indiantown. The 2023 Span pipe replacement projects will take place in unincorporated Palm Beach County and within the city of West Palm Beach. In 2024, the Company plans to have ongoing projects within multiple areas of its service territory, including Palm Beach County and the Central Florida areas of its system such as Winter Haven, Sanford, Debary, and the New Smyrna Beach area.

8. Please provide Exhibit 4 in Excel format.

Company Response:

The Excel version of Exhibit 4 has been provided as Exhibit DR 8 – GUARD Revenue Requirements.

9. Referring to Exhibit 4, page 2 of 3, of the petition, please explain the beginning balance of \$5.84 M. Does this amount include the remaining balance of GRIP investments that was not rolled into rate base in Docket No. 20220067-GU (rate case docket)?

Company Response:

The GUARD beginning balance of \$5.84MM represents GRIP investments from 2022 not rolled into rate base in the recent rate case Docket No. 20220067-GU.

10. Paragraph 31 of the petition states "A full assessment of the system for projects and facilities that could fall under this project is still in progress." However, paragraph 8

states that the company will utilize the contractor's recommendation and prioritization of facilities. Please explain the process of how the company prioritizes facilities.

Company Response:

At the time of filing the GUARD application only a preliminary assessment was completed by the Contractor. The Company has received the final risk assessment reports prepared by the outside contractor, which outlines and ranks the risk of the facilities considered for replacement under the scope of this program. The risk ranking methodology utilized by the contractor is in accordance with section 192.1007(c) of Title 49 of the Code of Federal Regulations, which considers and evaluates current and potential threats on the gas distribution system as well as the likelihood and consequence of failure by pipe segment. The results of the contractor report were reviewed and adjusted by the Company's subject matter experts. The Company will prioritize the facilities for replacement based on highest risk of failure identified in the contractor's risk assessment, input from the Company subject matter experts, and from the Company's DIMP, which considers factors such as pipe diameter, material, pipeline class locations, surrounding population density, leak history, areas with common risky materials and other environmental factors. Paragraph 31 of the petition states that the full assessment is still progress because the Company intends on conducting this DIMP risk assessment annually to ensure all areas are being assessed and that the highest risk areas are being addressed earlier in the program.

11. Please refer to FPUC's petition, paragraph 30, on page 13, for the following questions.

- a. Please identify the estimated construction-related savings and all associated benefits FPUC anticipates by implementing the GUARD program now as opposed to later.
- b. Please explain the process the Utility intends to use to select construction contractors for the GUARD program.

Company Response:

11A – FPUC established an accelerated 10-year term for the GUARD because the Company believes that implementation of this program now, as opposed to later or on a more gradual basis, may have the added benefit of construction-related savings over the life of the program. The Company believes that material and construction labor costs may increase as a direct result of inflation, market conditions and other factors. Addressing the Company's construction needs now will avoid the impact of market increases to the extent that much of GUARD replacement activity may be addressed during the earlier years of the Program. FPUC will always consider cost saving measures such as coordinating with other utilities, municipalities, and sharing restoration costs with other utilities and contractors.

11B – The Company will strictly adhere to its supply chain and procurement procedures for vendor selection. FPUC will prepare a Request for Proposal outlining the specific requirements and expectations of the program and will release invitations to bid on the projects under the program to multiple qualified Contractors for competitive bidding. Contractor selection

procedures will follow an intense evaluation of qualifications, safety record, diversity, experience, and pricing.

- 12. Please refer to FPUC's petition, paragraph 10, on pages 5 through 6, for the following questions.
 - a. Please detail what criteria FPUC used to determine that approximately 237 miles of mains require replacement of the 446 miles of mains identified as being located in rear easements/difficult to access areas.
 - b. Please explain how the Utility intends to refine its estimate of the miles of mains that will be replaced under the GUARD program. As part of this response, please indicate what additional data the Utility requires to refine this estimate, and identify how long the refinement process is expected to take.
 - c. Please identify any plans for the remainder of mains located in rear easements/difficult to access areas that are not planned for replacement under the GUARD program.

Company Response:

12A - The DIMP risk ranking model (developed by the contractor) analyzes risk characteristics of likelihood and consequence of failure which were input from sources such as existing rear mains with historical leaks by cause, rear mains with historical inaccessible "Cannot-Get-In (CGI)" locations, attributes of the rear mains such as pressure, material and diameter of pipeline. It also uses public GIS data to determine population density in order to consider both the number of structures within proximity and the average distance between main and structure. The risk model is geo-spatially aware which means the cause and consequence scores are unique to the geographical location of the main. It uses both the attributes of the pipeline, CGI data, and leak repair data while considering the physical location of the data to produce geographically accurate risk scores. Because the model indicated rear lot segments were considered "high risk" based on the aforementioned approach, an additional review was conducted. From that review, segments that existed within a common residential neighborhood development that were installed during the same time frame and contained pipeline segments of similar characteristics such as diameter, material type, and coating type, were grouped as "contiguous high risk" mains. From the total rear lot mileage of four hundred forty-six (446) miles, the total mileage of contiguous high risk mains with a Risk Rank priority 1 is two hundred thirty-seven (237) miles.

12B – Based on the data provided within the DIMP risk assessment reports, The Company has high levels of confidence on the initial two hundred thirty-seven (237) rear lot miles necessary to be replaced. However, during specific project limit selection of the two hundred thirty-seven (237) rear lot miles to be replaced, certain design requirements may cause slight adjustments in actual rear main to be retired due to factors such as maintaining cathodic protection continuity, feasibility of construction installation means and methods, and other considerations. The Company anticipates this mileage adjustment to be minor in nature.

12C – The remainder of mains located in rear easements/difficult to access areas that are not planned for replacement under the GUARD program will continue to be monitored closely and continue to be operated and maintained. The Company will continue to conduct its annual DIMP risk assessment to ensure all areas are being assessed and that the highest risk areas are being addressed during the scope of the program. FPUC will determine through the annual DIMP risk assessments if additional rear lot mains require replacement in the future.

13. Considering some pipelines are on private property and/or have rear access, would the property owner need to be onsite at the time of the work being done?

Company Response:

The Company's planned construction activities under this program will take place on road rights-of-way so property owner involvement should be minimal. As with all construction projects, however, the Company will be notifying all adjoining landowners of the planned construction activities well in advance of beginning each project. For the rear easement access projects, the Company's contractor will need to access the customer's private property for purposes of installing new service lines, relocating or replacing natural gas meters, relighting gas appliances, and cutting off and removing the retired gas service "risers". The Company and its contractors will schedule and coordinate these efforts very closely with each property owner to ensure a seamless transition and minimal impact to the customer.

14. Please refer to FPUC's petition, paragraph 20, on page 10. Please explain how the estimate of 20 percent more mains to be installed than retired was determined.

Company Response:

Exhibit 3 of the petition demonstrates a schematic drawing example of how additional mains are needed to be installed in order to retire existing rear lot mains. The example shows a common scenario where in order to retire a single existing rear lot main, which is currently common to service natural gas to premises on both sides of the neighborhood block (red lines), the Company may need to install two (2) mains, each within either side of the front road rights-of-way (brown/yellow lines). On a contiguous project, these new front gas mains (brown/yellow lines) would then be common to premises on both sides of the street which would involve both "shortside" service lines as well as "longside" service line road crossings. The Company estimates that for every five (5) rear lot gas mains to be retired, six (6) new front gas mains will be necessary, which equates to a 20 percent difference of mains installed versus retired.

15. Please list the municipalities and communities that have a single source of gas. Have those communities experienced any gas emergency situations and hence the need to have an additional backup natural gas supply pipeline? Please discuss.

Company Response:

The Company is not proposing to build a second feed or to loop all communities that have a single source of gas. However, communities such as Palm Beach Shores, Singer Island, South

Palm Beach, Manalapan, New Smyrna Beach, Edgewater, Deerfield Beach, and Hypoluxo Island are particularly vulnerable to service disruption based on their location on islands or peninsulas, as well as other factors. While these communities have experienced small outages and disruptions, there have not been any recent gas emergency situations that required additional backup supply. However, given the increased risk of disruption due to third party damage and natural disasters associated with these locations, the Company will continue to monitor and prioritize projects as necessary in order to mitigate risks for failure. Additionally, repairing subaqueous facilities requires additional expertise and coordination with contactors and municipalities to mend those facilities if they were to be damaged. Repairs across bridge spans could also require bridge lane shutdowns that could cause traffic disruptions to the community.

16. If work on a gas pipeline is expected to cause outages, how long should a customer or business be expected to be without natural gas as the petition, on paragraph 18 states that some communities have a single gas pipeline?

Company Response:

Under normal operating conditions, Company-scheduled gas pipeline construction, maintenance, or work is generally performed in a way that does not cause outages. Paragraph 18 of the petition elaborates on the risk of certain service territory communities that currently lack redundancy due to a single source pipeline. These instances represent risk primarily due to potential third-party excavation damage or other outside force risk of rupture. Thus, while planned work by the utility on the line should not entail an outage, or an outage of any significance, an "uncontrollable" rupture caused by a third party to one of these pipelines that serve as the sole source of natural gas to the community, could have a duration of multiple weeks.

17. Paragraph 20 of the petition states that "polyethylene pipe will be used for most replacement and relocation of pipe as well as installation of new pipe." Please state the estimated lifespan of the polyethylene pipe.

Company Response:

According to industry standard specifications such as American Society for Testing and Materials (ASTM) D2513: "Standard Specification for Polyethylene (PE) Gas Pressure Pipe, Tubing, and Fittings", as well as publications by the Plastics Pipe Institute (PPI), the life expectancy of polyethylene pipe is conservatively 50 to 100 years.

"Durability – PE pipe installations are cost-effective and have long-term cost advantages due to the pipe's physical properties, leak-free joints and reduced maintenance costs. The PE pipe industry estimates a service life for PE pipe to be, conservatively, 50-100 years provided that the system has been properly designed, installed and operated in accordance with industry established practice and the manufacturer's recommendations. This longevity confers savings in replacement costs for generations to come. Properly designed and installed PE piping systems require little on-going maintenance. PE pipe is resistant to most ordinary chemicals and is not susceptible to galvanic corrosion or electrolysis. "¹

However as stated in the most recent rate case the approved depreciation rate for mains and services are 1.60% and 2.50%, which equates to a depreciable life of 75 years and 55 years respectively.²

- 18. Please refer to FPUC's petition, paragraph 16, on page 8, for the following questions.
 - a. Please detail any reliability issues experienced at each of the proposed locations for the reliability improvements under the GUARD program by year for the past 10 years. As part of this response, please indicate whether or not FPUC's system reliability would be affected if these improvements are not made. If so, please explain how.
 - b. Please identify a Commission Order where a similar project has been approved outside of a base rate proceeding.

Company Response:

18A – In general, the Company's natural gas pipeline system is safe and reliable, but the Company has identified several communities that are at higher risk for reliability issues than others, which can rise to the level of a safety risk depending upon the community and its residents. In most cases, these communities have experienced dangerously low gas pressures as a result of cold weather demand. The risk of disruption due to increased demand from existing and potential customers is therefore significant. Many customers in these areas, including residential, commercial and emergency facilities, use natural gas to fuel generators to be used in cases of emergency and loss of electric power. In the event of a natural disaster, including hurricanes, systems that regularly experience low pressure will be particularly susceptible to complete loss of pressure and outage if widespread generators are activated at the same time. Widespread loss of electric power and natural gas as an emergency fuel source would be catastrophic.

In other cases, the risk of outages and disruption arises from the location of the single feed serving those communities, especially if the pipeline is sub-aqueous to the intercoastal canal system. Should third-party damage in a water way cause an interruption in service to the only feed to these communities, it may take weeks to repair the damage and restore service.

The reliability projects proposed by the Company would achieve reinforcement and improve reliability to the areas they serve and mitigate the risks uncontrollable outages and interruption of services to customers as a result of cold weather usage, natural disasters, and third-party damages to specific communities.

¹ Plastic Pipe Institute "Handbook of Polyethylene Pipe", Chapter 1, page 9.

² As approved in Commission order PSC-2023-0103-FPF-GU in Docket 20220067

18B – The Company is not aware of a Florida Commission Order for similar projects done under the requested circumstances. However, FPUC does not anticipate another rate case proceeding in the immediate future and the risks and reliability issues described exist today and increase over time.

19. Please refer to FPUC's petition, paragraph 17, on pages 8 through 9. Please identify all instances where cold weather has caused volumetric pressure to fall to dangerously low levels by year for the past 10 years. As part of this response, please identify the number of customer outages experienced during each occurrence as a result.

Company Response:

The Company has a data storage limitation of 15,000 pipeline volumetric readings of which a subset are instances where weather has caused volumetric pressure to fall to dangerously low levels. However, the Company is able to provide, as Exhibit DR 19, Examples of Low-Pressure Readings and Alerts, which is a summary of the low-pressure readings from July 17, 2021 to April 3, 2023 for those segments where cold weather has caused volumetric pressure to fall to low levels. Low pressure occurrences are based on hourly readings, and FPUC's Talon system issues automated alerts to key operations personnel every four (4) hours while the low-pressure condition exists.

Reliability projects included in GUARD are preventive measures in order prevent loss of pressure from cold weather from taking place in communities most susceptible to a low-pressure event, as a result of the increased demand from existing and potential residential, commercial and emergency facility customers. These projects would also mitigate the uncontrollable outages and risks interruption of services to customers as a result of natural disasters and third-party damages to specific communities.

20. Please refer to FPUC's petition, paragraph 18, on page 9. Please identify the number of "uncontrollable outages" that have occurred in communities served by a single gas pipeline by year for the past 10 years.

Company Response:

According to rule FAC 25-12.084.3, "Each operator shall immediately report to the Commission any distribution system-related accident or failure which interrupts service to either 10% or more of its meters or 500 or more meters." Using this as the basis for what is considered an "uncontrollable outage", the Company would need to manually extract from its databases the number of outages associated with communities such as Palm Beach Shores, Singer Island, South Palm Beach, Manalapan, New Smyrna Beach, Edgewater, Deerfield Beach, and Hypoluxo Island that are particularly vulnerable to service disruption based on their location on islands or peninsulas, as well as other factors.

21. Page 1 of the petition refers to "distribution lines and services that are made of suspect material identified since GRIP was implemented." Please identify the pipe materials that are considered "suspect material."

Company Response:

Examples of suspect materials of distribution mains and services include xtrubed steel tubing, vintage plastic materials such as Aldyl-A plastic pipe subject to brittle-like cracking installed from prior to 1974 through 1990, and certain orange plastic pipe and some black plastic pipe typically installed during the 1970s and 1980s that also has a potential for brittle-like cracking. For more information refer to paragraph 15 of the petition.

22. Please refer to FPUC's petition, paragraph 12, on pages 6 through 7. For each type of distribution mains and service lines in need of expedited replacement, please explain how each was determined to need expedited replacement, and identify any issues the Utility has encountered with each type by year for the past 10 years.

Company Response:

While the Company's systems are safe and adhere to industry standards, this GUARD program will ensure that our facilities continue to meet ongoing federal initiatives and appropriately reduce any unnecessary risks to the public due to facilities that are aged or inaccessible. Responses to questions 6B, 11A, 12A, 12B and 12C detail the need to expedite replacement of the facilities.

- 23. Please refer to FPUC's petition, paragraph 14, on page 7, for the following questions.
 - a. Please provide a preliminary estimate of the amount of shallow/exposed pipe that would need expedited replacement, and identify the estimated total replacement cost. If unknown, please explain how FPUC intends to investigate this issue, and identify when the Utility intends to provide an estimate of the associated costs to the Commission.
 - b. Please indicate whether or not it is standard practice for FPUC to replace shallow/exposed pipe as it is discovered. If so, please explain why expedited replacement of shallow/exposed pipe is necessary for inclusion in the GUARD program.

Company Response:

23A – At the time the filing, the Company and RUIZ were still preparing their initial assessments of the Company's facilities. Since those assessments were complete, the Company's preliminary estimate of the amount of shallow/exposed pipe that would need expedited replacement is approximately 2.80 miles, some of which are major feeder lines that are exposed within major river channels and lakes. These locations represent the portions of pipeline that could be exposed laying at the bottom of the waterways due to erosion over the years. This risk represents likelihood and consequence of failure associated with threats around outside force damages as these waterways are navigable, as well as corrosion threats and other

integrity concerns. The Company also intends on monitoring additional areas of SME-reported shallow distribution pipe and will report to the Commission as deemed necessary. The costs of these projects are still being determined. The timing of these projects will be based on the risk assessment and other factors for the projects compared to other projects.

23B – Yes, the Company's standard practice is to replace minor shallow/exposed pipeline segments as they are discovered, based on the scope and risk. However, the shallow/exposed pipe segments that are identified in the response to question 23A that would be included in the GUARD program, are large scale and highly complex construction projects, and are therefore not routine replacement of shallow/exposed pipeline projects. As part of the Company's ongoing risk ranking and assessment, it anticipates that it will include more shallow/exposed pipe projects as they are found.

24. Exhibit 5 of the petition contains FPUC's proposed tariff revisions related to the GUARD program for which the Utility is seeking implementation in January 2024. Para graph 29 of the petition states that the first true up filing for a combined remaining GRIP and proposed GUARD will be made in September 2023. Please discuss what the differences would be of the tariffs filed in this docket and what the company plans to file in September 2023. Will the September filing include tariffs?

Company Response:

The rates in the tariff sheets provided in this docket were calculated using an estimate of expenses for GUARD in 2023. The Company anticipates that the rates in the tariff sheets to be filed in September 2023 will be calculated based upon actuals for the first 4 months of the program, April – July 2023, and an estimate for the remainder of the year.

25. FPUC is requesting the proposed GUARD factors be effective in January 2024. However, First Revised Sheet No. 7.403 indicates year 2023. Please explain.

Company Response:

The Company proposes an effective date of January 1, 2024, for the first factors that would include GUARD costs, but the Company would like the program itself to be effective April 1, 2023. Tariff Sheet 7.403, which pertains to the effective dates of the GUARD factors erroneously indicates effectiveness during calendar year 2023, when it should be 2024.

26. Referring to First Revised Sheet No. 7.405, please explain why FPUC is proposing to delete "grossed up for federal and state income taxes" language from the Ad valorem taxes.

Company Response:

The referenced edit to Sheet No. 7.405 was made in error and not intended to be included.

27. Assuming FPUC does not petition the Commission for a rate case in the next 10 years, what is FPUC's estimated average annual customer rate impact of the proposed GUARD for each customer class for 2024 through 2034?

Company Response:

Exhibit ROG 27 – FPUC Projected Customer Impact extrapolates the estimated cost of the GUARD program over the lifespan of the proposed contemplated work. The costs per year in the attachment are estimated expenses per year for the program. While the Company will attempt to adhere to the proposed timing and cost projects it provided to the best of its ability, the projects filed and completed each year will vary based on a multitude of variables that may or may not be in the Company's control such as timelines, construction planning, cost of projects, contractor resources, risk factors or other construction inputs.

Exhibit DR3C

Estimated Annual GUARD Program Costs By Proposed Improvement (Table per Data Request 3C)

Proposed Improvement	2023	2024	2025	2026	2027	20	28	2029	2030	2031	2032	Total
Access Rear Easement Projects	\$ 5,010,000	\$ 20,798,814	\$ 20,798,814	\$ 20,798,814	\$ 20,798,814	\$ 20,7	798,814	\$ 20,798,814	\$ 20,798,814	\$ 20,798,814	\$ 2,575,450	\$ 173,975,965
Span Pipe Replacement Projects	\$ 2,600,000	\$ 846,947	\$ 2,258,524	\$ 2,258,524	\$ 2,258,524	\$ 2,2	258,524	\$ 2,258,524	\$ 2,258,524	\$ 2,258,524	\$ 1,129,262	\$ 20,385,879
Obsolete Facility Projects	\$ -	\$ 1,155,005	\$ 1,155,005	\$ 1,155,005	\$ 1,155,005	\$ 1,1	155,005	\$ 1,155,005	\$ 1,155,005	\$ 1,155,005	\$ 1,155,005	\$ 10,395,041
Pipeline Loop Projects	\$-	\$ 1,689,261	\$ 1,689,261	\$ 1,689,261	\$-	\$	- :	\$ -	\$-	\$-	\$-	\$ 5,067,783
Secondary Feed Projects	\$-	\$-	\$ 1,688,288	\$ 1,688,288	\$ 1,688,287	\$	- :	\$ -	\$ -	\$ -	\$ -	\$ 5,064,864
Total	\$ 7,610,000	\$ 24,490,027	\$ 27,589,893	\$ 27,589,893	\$ 25,900,631	\$ 24,2	212,343	\$ 24,212,343	\$ 24,212,343	\$ 24,212,343	\$ 4,859,717	\$ 214,889,532
Cumulative YOY	\$ 7,610,000	\$ 32,100,027	\$ 59,689,919	\$ 87,279,812	\$ 113,180,442	\$ 137,3	392,786	\$ 161,605,129	\$ 185,817,472	\$ 210,029,815	\$ 214,889,532	1

EKhibit DR4 3pases

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GUARD Program Construction Timeline (Timeline per Data Request 4)

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PURPOSE

The purpose of this study was to perform a formal risk assessment on the rear lot portions of the existing natural gas distribution system that is owned and operated by Florida Public Utilities Company (FPUC). FPUC has noted that its employees and representatives have had many cases of incomplete work orders and have experienced general challenges around accessing its rear lot gas mains, services and meters due to a variety of reasons. The study identifies current and potential threats that are present on these rear lot natural gas distribution systems and establishes a relative risk rank for each of the rear lot pipeline segments, in order for FPUC to have a full understanding of its risk and for FPUC to make decisions on how to mitigate them.

METHODS USED

RUIZ used information provided by FPUC to perform a risk assessment for each segment of rear lot main that FPUC currently operates.

The historical leak data and historical "Cant Get In" (CGI) data, along with associated attribute data, was geo-coded by address location and into a spatial GIS environment. FPUC rear lot gas main data was also imported into GIS and cleaned. Together this data was used to identify the leaks and CGIs that have occurred within areas of rear-lot gas facilities.

Two different risk analyses were then conducted to identify and rank threats on the rear lot natural gas distribution systems. The first being a system risk assessment which was based on historical leaks that have occurred on rear lot facilities from 2017 through mid July of 2022. The rear lot leak data was exported from GIS and was given a relative risk rank by leak cause and sub threat. The second risk analysis was a Subject Matter Expert (SME) Risk Assessment that was conducted based on feedback from SMEs during an in-person meeting. The combined system risk assessment and SME Risk Assessment established a risk rank by threat type in the existing FPUC system.

The final step was to rank each segment of rear lot main based on its Relative Risk Of Failure, using the risk rank by threat type established. A model was developed to assign a risk rank to each rear lot main based on its likelihood and consequence of failure associated with historical threats and similar pipe characteristics. The pre-final model was then manually analyzed for quality control and was slightly adjusted to ensure areas where SMEs identify threats were captured and ranked appropriately. The resulting risk pipe segments were conservatively grouped based on contiguous mains that exist within common neighborhood developments, in order to obtain the final risk ranks and risk priority orders for all FPUC existing rear lot facilities of record.

FINDINGS AND CONCLUSIONS

RUIZ performed a thorough review of the records provided by FPUC, collaborated with the FPUC SMEs to complete data analyses, conducted risk assessments, and developed a risk ranking model to arrive at the following conclusion:



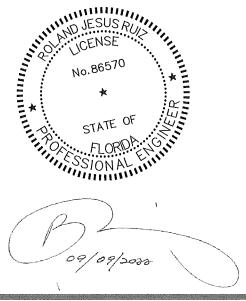
FPUC currently operates and maintains over 446 miles of residential rear lot natural gas distribution main, of which approximately <u>237</u> miles are at a higher risk of failure. The risk assessments that were completed demonstrate that certain threats do exist on the FPUC natural gas distribution facilities of record located within rear lots of residential homes, and these 237 miles of gas pipe segments have a higher likelihood of failure and consequence of failure when compared to other rear-lot facilities that FPUC operates.

RECOMMENDATIONS

Gas distribution mains and services that are located within the rear of residential homes presents a challenge to most natural gas local distribution companies. The condition presents issues with access for operating and maintaining the system, conducting compliance repairs, and responding to emergency situations. This report, along with the current FPUC Distribution Integrity Management Program, identifies certain threats that exist on the FPUC natural gas distribution system, including those portions of the system that exist within the rear of residential homes, which essentially worsens the threat because of the lack of proper accessibility.

RUIZ hereby provides the following recommendations:

- FPUC should continuously monitor system threats, adjust and re-prioritize pipe segment risk ranks as needed, and deploy short-term risk mitigation activities.
- FPUC should continue to strengthen the FPUC Damage Prevention Program.
- FPUC should consider deploying a long-term program to replace aging Rear Lot natural gas infrastructure, giving priority to those rear main segments considered "high-risk" and risk priority order "1".
- FPUC should use new polyethylene pipe per ASTM standard D-2513 for areas considered for new construction and for replacement.



PURPOSE

The purpose of this study was to perform a formal risk assessment on the portions of the natural gas distribution mains and services of record considered "problematic" that are owned and operated by Florida Public Utilities Company (FPUC). FPUC has noted that its employees and representatives have had several work orders and cases of leaks, threats and other general challenges around existing main or service segments made of Xtrubed steel tubing, Aldyl-A vintage plastic, also known areas of exposed above ground mainlines crossing certain features such as waterways (Span Pipes), city gate and regulator station sites that currently have obsolete valves, regulators, and other equipment, areas of the system where shallow main and services are present, and even facilities made of bare steel (those residual portions not replaced under GRIP). The study identifies current and potential threats that are present on these portions of the natural gas distribution systems and establishes a relative risk rank for each of the main segments in the system, for FPUC to have a full understanding of its risk and for FPUC to make decisions on how to mitigate them. The study also observes areas of the system that are a threat for "reliability" purposes, such as areas of the system that lack redundancy because they are fed from a single source, and areas of the system that have presented operating pressure problems related to small diameter pipe networks during peak loading.

METHODS USED

RUIZ used information provided by FPUC to perform a risk assessment for each segment of "problematic" and "reliability" mains and services that FPUC currently operates.

The methods used for this risk assessment resemble those utilized and summarized during the "FPUC Rear Lot Facilities Risk Analysis" exercise and report dated September 9th, 2022. The GIS historical leak data that was geo-coded by address used for the said analysis, along with associated attribute data, was utilized to buffer the leaks to mains based on Aldyl-A failures, Xtrubed steel tubing failures, bare steel failures, and similar problematic leak types. Then, system threat risk characteristics of likelihood and consequence of failure were input from sources such as mains with historical leaks by cause, attributes of the rear mains like pressure, material and diameter of pipeline, were fed into the same risk ranking model which runs a script using GIS research tools to determine a risk ranking score.

Risk ranking on Span Pipe segments were further supplemented from FPUC-provided historical above ground inspection reports performed and completed by operator qualified FPUC employees. The reports were analyzed for past coating failures, presence of atmospheric corrosion and even certain pipe spans that have sagged and lack proper support. The risk rank for the above ground segments considers potential impact radius based on pressure, diameter, and class location dependent on population density and vicinity to structures intended for human occupancy.

Historical issues at city gate purchase stations, district regulator stations, and other metering and regulator sites were observed from reports generated by the Subject Matter Experts (SMEs) that normally maintain and operate these sites. A total of 21 different sites have concerns, some of which being obsolete pressure regulators, inoperable valves, and corrosion issues. Each site's relative risk was ranked based on the threat type risk rank methodology established during the "FPUC Rear Lot Facilities Risk Analysis".



The preliminary results of the risk analysis were reviewed with individual subject matter experts from each of the divisions of FPUC. The purpose of the review was to validate and calibrate the results of the risk ranking model against the experience and system knowledge of the subject matter experts that know the distribution system. The final risk rank for each "problematic" segment was based on best available data which have been reviewed and approved by the FPUC area subject matter experts.

FINDINGS, CONCLUSIONS AND RECOMMENDATIONS

While the Florida Public Utilities Company (FPUC) natural gas distribution system of record is relatively healthy in nature, this study has identified there are certain threats that are present in the system, that represents a considerable level of risk. These threats were categorized by two major categories, "Problematic" pipe, and "Reliability" areas of concern.

RUIZ performed a thorough review of the records provided by FPUC, and collaborated with the FPUC SMEs to complete data analyses, conduct risk assessments, and developed a risk ranking model to arrive at the following conclusions and recommendations:

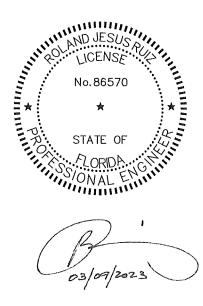
- FPUC operates over 97 miles of at-risk problematic pipe, of which approximately 76 miles of these facilities are considered to show a moderate-to-high level of risk. The problems that these facility segments show are, among other items, pipeline under buildings, Aldyl-A plastic pipe, difficult to locate plastic pipe due to deteriorated tracer tape or wire, inability to complete multiple inactive service disconnections due to faulty fittings, coated steel pipe with disbondment issues or cathodic protection integrity issues such as stray current or isolated steel, thin wall pipe, and exposed pipe.
 - <u>RECOMMENDATION NO. 1:</u> FPUC should consider deploying a long-term program to replace moderate to high risk "problematic" natural gas infrastructure, giving priority to those segments considered "high-risk". The existing problematic mains and services presents operational risks and challenges for FPUC and its customers.
- FPUC currently operates and maintains 66 above ground "span pipe" segments of which 51 show moderate-to-high levels of risk. These are aboveground and exposed pipe segments that are not only subject to natural force or outside force damages, but also demonstrate historical issues around coating deterioration, sagged pipe and stresses associated to movement.
 - <u>RECOMMENDATION NO. 2:</u> FPUC should consider deploying a long-term program to replace moderate to high-risk span pipe segments in the distribution system. The replacement pipe should be installed via horizontal directional drilling at proper depths underneath the waterways or ditches. This will drastically reduce the risk of span pipes and will also reduce 0&M expenses related to maintenance.



- 21 of the Company's district metering and pressure regulating stations and city gate purchase tap stations also show considerable levels of risk. SMEs have reported that Four (4) stations have notable evidence of corroded pipe, equipment and features, while another 17 show the presence of obsolete equipment currently in-service which present challenges for maintenance and operations such as discontinued pressure regulators with inability to purchase replacement parts, difficult to operate plug or gate valves, inability to bypass a flow meter for differential testing, proving, or similar maintenance without shutting-in the station, and the inability to test regulator lockup without shutting-in the station due to missing run isolation valves.
 - <u>RECOMMENDATION NO. 3</u>: FPUC should evaluate the feasibility of replacing corroded and obsolete equipment at the 21 existing district regulator stations and city gate stations. Depending on layout of the existing stations, it may be possible to replace certain pipe run segments or swap out flanged end regulators for more modern equipment without having to incur the cost of renewing and rebuilding the entire station
- FPUC Subject Matter Experts have reported historical areas of risk related to "single point of failure" areas fed by a single gas main line with no redundancy. Since excavation damages are the highest threat to the FPUC system, there is a considerable level of probability that these segments may sustain a rupture by outside forces. Should there be a third-party excavation damage on a mainline segment that serves as the only feed to an entire subsystem, the FPUC customers would likely endure a mass outage that will cause considerable inconvenience for many days, as well as FPUC will incur excess O&M expenses in labor needed to reactivate and relight the customer services and gas appliances and equipment.
 - <u>RECOMMENDATION NO. 4</u>: FPUC should consider deploying capital for reliability projects that will introduce a secondary source of gas pipeline to those subnetworks that are currently operating off of a single source mainline that lack redundancy, giving priority to those subnetworks that contain a large number of active FPUC customers.
- FPUC has also reported certain areas of the network with small diameter pipe, which have historically caused low pressure and "no-gas" situations under peak "design-day" loading during cold weather days
 - <u>RECOMMENDATION NO. 5:</u> For proper prediction of vulnerability related to possible low pressure events and capacity concerns, It is recommended for FPUC to invest in the installation of additional remote real time electronic pressure recording devices at the locations of these areas of concern. FPUC should also invest in formal hydraulic system capacity planning, modeling, and studies, to predict and determine the probable outcomes associated to cold weather events and other system design heating degree day conditions
- As a general note, and specifically for the other areas of system risk identified in this study, which has not been specifically summarized in this section:



- <u>RECOMENDATION NO. 6:</u> FPUC should continuously monitor system threats, adjust and re-prioritize pipe segment risk ranks as needed, and deploy short-term risk mitigation activities. FPUC should continue advocating its Distribution Integrity Management Program and monitor system threats continuously to re-prioritize the ranks of risky mains as needed and on a periodic basis (minimum once per year). Continue to deploy robust leak survey programs using advanced new technology, deploy enhanced and remote corrosion monitoring activities, and conduct preventative maintenance to ensure short term risk of failure is mitigated in any way possible.
- <u>RECOMMENDATION NO. 7</u>: FPUC should continue to strengthen the FPUC Damage Prevention Program. Continue the all-employee culture for Patrolling the FPUC Gas System, Public Awareness, and Damage Prevention in accordance with RP 1162 / 49 CFR 192.616. Initiatives should have a strong emphasis on homeowner educational notifications for excavation 811 laws and safety tips, using social media, radio announcements, TV commercials, mailers, and other methods. Continue to perform general contractor excavator training and educational seminars and meetings. FPUC should take the lead on hosting state-wide seminars in front of builder associations, local and state fire departments, annual FDOT Utility coordination conferences, and similar type events.



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		Lane Asphalts		
		Nominal	Average	% of Nominal
Alert Type*	# of Alerts	Pressure (psi)	Pressure (psi)	Pressure
Low Alert	12,799	100.0	91.9	92%
Medium Alert	2,068	. 100.0	82.8	83%
High Alert	99	100.0	76.3	76%
Critical Alert	32	100.0	72.4	72%

1	0 Most Recent Lo	ow Pressure Days	
	Nominal	Lowest Daily	% of Nominal
Date and Time	Pressure (psi)	Pressure (psi)	Pressure
1/16/2023 10:00	100.0	46.6	47%
1/15/2023 19:00	100.0	47.2	47%
4/21/2022 13:00	100.0	30.4	30%
2/15/2022 9:00	100.0	47.2	47%
2/14/2022 9:00	100.0	41.7	42%
2/10/2022 8:00	100.0	43.6	44%
2/1/2022 8:00	100.0	44.0	44%
1/31/2022 9:00	100.0	46.9	47%
1/24/2022 9:00	100.0	42.8	43%
1/23/2022 21:00	100.0	46.8	47%

*Alert Type based on the nominal pressure of this system

Low Alert: Pressure Reading between 100% and 80% of nominal pressure Medium Alert: Pressure Reading between 80% and 60% of nominal pressure High Alert: Pressure Reading between 60% and 50% of nominal pressure Critical Alert: Pressure Reading below 50% of nominal pressure

		Boston Whaler		
		Nominal	Average	% of Nominal
Alert Type*	# of Alerts	Pressure (psi)	Pressure (psi)	Pressure
Low Alert	14,682	55.0	54.6	99%
Medium Alert	237	55.0	44.7	81%
High Alert	50	55.0	44.2	80%
Critical Alert	12	55.0	35.1	64%

10 Most Recent Low Pressure Days Nominal Lowest Daily % of Nominal Pressure (psi) **Date and Time** Pressure (psi) Pressure 1/16/2023 7:00 55.0 26.9 49% 1/15/2023 21:00 55.0 27.6 50% 2/15/2022 1:00 55.0 27.9 51% 2/14/2022 9:00 55.0 27.5 50% 2/10/2022 9:00 55.0 27.7 50% 2/7/2022 10:00 59% 55.0 32.5 1/31/2022 2:00 55.0 27.2 49% 1/30/2022 20:00 55.0 27.1 49% 1/24/2022 6:00 55.0 26.8 49% 1/18/2022 9:00 55.0 26.5 48%

*Alert Type based on the nominal pressure of this system

Low Alert: Pressure Reading between 100% and 80% of nominal pressure Medium Alert: Pressure Reading between 80% and 60% of nominal pressure High Alert: Pressure Reading between 60% and 50% of nominal pressure Critical Alert: Pressure Reading below 50% of nominal pressure

		South Ocean		
		Nominal	Average	% of Nominal
Alert Type*	# of Alerts	Pressure (psi)	Pressure (psi)	Pressure
Low Alert	6,755	20.0	18.9	95%
Medium Alert	305	20.0	14.8	74%
High Alert	23	20.0	11.1	56%
Critical Alert	4	20.0	6.7	33%

1	10 Most Recent Low Pressure Days								
	Nominal	Lowest Daily	% of Nominal						
Date and Time	Pressure (psi)	Pressure (psi)	Pressure						
1/15/2023 10:00	20.0	11.5	57%						
1/14/2023 10:00	20.0	10.0	50%						
12/25/2022 12:00	20.0	10.9	54%						
12/24/2022 10:00	20.0	10.6	53%						
2/14/2022 9:00	20.0	11.5	57%						
1/30/2022 10:00	20.0	11.9	60%						
1/29/2022 10:00	20.0	10.2	51%						
1/24/2022 9:00	20.0	10.2	51%						
1/16/2022 14:00	20.0	9.8	49%						
8/23/2021 16:00	20.0	3.3	16%						

*Alert Type based on the nominal pressure of this system

Low Alert: Pressure Reading between 100% and 90% of nominal pressure Medium Alert: Pressure Reading between 90% and 80% of nominal pressure High Alert: Pressure Reading between 80% and 50% of nominal pressure Critical Alert: Pressure Reading below 50% of nominal pressure

		North Ocean		
		Nominal	Average	% of Nominal
Alert Type*	# of Alerts	Pressure (psi)	Pressure (psi)	Pressure
Low Alert	2,427	20.0	19.3	96%
Medium Alert	390	20.0	17.3	86%
High Alert	105	20.0	14.9	74%
Critical Alert	-	20.0		

Nominal Lowest Pressure % of Nominal **Date and Time** Pressure (psi) (psi) Pressure 3/20/2023 10:00 20.0 15.1 76% 3/16/2023 10:00 20.0 15.8 79% 2/13/2023 10:00 20.0 14.4 72% 2/4/2023 10:00 20.0 15.0 75% 1/16/2023 9:00 20.0 15.6 78% 1/15/2023 10:00 69% 20.0 13.8 1/14/2023 10:00 20.0 12.3 61% 1/11/2023 9:00 20.0 15.9 79% 12/29/2022 10:00 20.0 15.3 76% 12/27/2022 10:00 20.0 15.6 78%

10 Most Recent Critical Pressure Days

*Alert Type based on the nominal pressure of this system

Low Alert: Pressure Reading between 100% and 90% of nominal pressure Medium Alert: Pressure Reading between 90% and 80% of nominal pressure High Alert: Pressure Reading between 80% and 50% of nominal pressure Critical Alert: Pressure Reading below 50% of nominal pressure

		Ritz Carlton		
		Nominal	Average	% of Nominal
Alert Type*	# of Alerts	Pressure (psi)	Pressure (psi)	Pressure
Low Alert	6,180	20.0	19.1	96%
Medium Alert	1,626	20.0	17.2	86%
High Alert	477	20.0	14.7	74%
Critical Alert	1	20.0	9.9	49%

Nominal Lowest Pressure % of Nominal **Date and Time** Pressure (psi) (psi) Pressure 3/31/2023 9:00 20.0 72% 14.4 3/23/2023 9:00 20.0 15.8 79% 3/22/2023 10:00 20.0 15.175% 3/21/2023 9:00 20.0 14.9 74% 3/20/2023 10:00 20.0 13.1 65% 3/17/2023 10:00 20.0 14.7 74% 3/16/2023 10:00 20.0 13.3 67% 3/15/2023 10:00 20.0 15.2 76% 2/18/2023 9:00 20.0 16.0 80% 1/14/2023 10:00 20.0 9.9 49%

10 Most Recent Critical Pressure Days

*Alert Type based on the nominal pressure of this system

Low Alert: Pressure Reading between 100% and 90% of nominal pressure Medium Alert: Pressure Reading between 90% and 80% of nominal pressure High Alert: Pressure Reading between 80% and 50% of nominal pressure Critical Alert: Pressure Reading below 50% of nominal pressure

Hourly L	ow Pressure	e Readings
----------	-------------	------------

	Er	nbassy Deerfield		
		Nominal	Average	% of Nominal
Alert Type*	# of Alerts	Pressure (psi)	Pressure (psi)	Pressure
Low Alert	976	50.0	48.5	97%
Medium Alert	7	50.0	39.3	79%
High Alert		50.0		
Critical Alert	3	50.0	20.1	40%

10 Most Recent Critical Pressure Days										
	Nominal	Lowest Pressure	% of Nominal							
 Date and Time	Pressure (psi)	(psi)	Pressure							
4/1/2023 10:00	50.0	49.7	99%							
3/31/2023 10:00	50.0	47.7	95%							
3/30/2023 11:00	50.0	48.3	97%							
3/24/2023 11:00	50.0	49.2	98%							
3/23/2023 10:00	50.0	49.0	98%							
3/22/2023 11:00	50.0	48.3	97%							
1/14/2023 12:00	50.0	39.3	79%							
12/26/2022 12:00	50.0	39.4	79%							
1/29/2022 12:00	50.0	39.9	80%							
7/22/2021 17:00	50.0	19.1	38%							

10 84

*Alert Type based on the nominal pressure of this system

Low Alert: Pressure Reading between 100% and 80% of nominal pressure Medium Alert: Pressure Reading between 80% and 60% of nominal pressure High Alert: Pressure Reading between 60% and 50% of nominal pressure Critical Alert: Pressure Reading below 50% of nominal pressure

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Florida Public Utilities Company

Gas Utility Access and Replace Directive Calculation of Equity and Debt Returns

Rate Case	
Equity Cost Rate	10.25%
Weighted Equity Cost Rate	4.627%
Revenue Expansion Factor	1,3495
Weighted Equity Cost Rate, times Revenue Expansion Factor	6.24%
Long Term Debt-CU	1.136%
Short Term Debt	0.150%
Customer Deposits	0.056%
Weighted Debt Cost Rate	1.34%
Overall Weighted Cost Rate	5.97%

Exhibit ROG 27 Page 2 of 21

Florida Public Utilities Company Oza Utility Access and Replace Directive Calculation of the Projected Revenue Requirements January 1, 2023 through December 31, 2023

<u>htem</u>	Beginning <u>Balance</u>	Forecast Im	Forecast Feb	Forecast Mitt	Forecast Apx	Forecast <u>May</u>	Forecast Jun	Forecast <u>Jul</u>	Forecast Auz	Forecast Sep	Forecast <u>Oct</u>	Forecast <u>Nm</u>	Forecast Diss	Year End Total Balance
Qualified Investment														
Qualified Investment - Mains - Current Year 1070 Activity		50	50	\$0	\$744,089	\$744,039	\$744,089	\$744,089	\$7\$\$,089	\$744,059	\$744,089	\$744,089	\$744,089	\$6,696,800
Qualified Investment - Mains - Closed 1070 Activity to Plant		50 50	50 50	\$0 \$0	(\$744,089) \$101,467	(\$744,089) \$101,467	(\$744,089) \$101,467	(\$744,089) \$101,467	(\$744,089)	(\$744,089) \$101,467	(\$744,089) \$101,467	(\$744,089) \$101,467	(\$744,089) \$101,467	(\$6,696,800) \$913,200
Qualified Investment - Services - Current Year 1070 Activity Qualified Investment - Services - Closed 1070 Activity to Plant		50	50	50	(\$101,467)	(\$101,467)	(\$101,467)	\$101,467 (\$101,467)	\$101,467 (\$101,467)	(\$101,467)	(\$101,467)	(\$101,467)	(\$101,467)	(\$913,200)
Qualified Investment - M&R - Current Year 1070 Activity		50	50	50	(\$101,487) \$0	(3101,487)	(3101,407)	(3101,467) \$0	(3101,457)	(3101,457)	(\$101,457) \$0	(\$101,467)	(3101,407)	\$0
Qualified Investment - M&R - Cloted 1070 Activity to Plant		50	50	50	50	50	50	50	50	50	50	50	50	50
Qualified Investment - Mains - Current 1010 Activity		\$0	\$0	50	\$744,039	\$744,089	\$744,089	\$744,089	\$744,089	\$744,089	\$744,089	\$744,089	\$744,059	\$6,696,800
Qualified Investment - Services - Current 1010 Activity		\$0	50	50	\$101,467	\$101,467	\$101,467	\$101,467	\$101,467	\$101,467	\$101,467	\$101,467	\$101,467	\$913,200
Qualified Investment - M&R - Current 1010 Activity		50	\$0	\$0	\$0	50	50	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Qualified Investment - Mains 1070	\$0	\$0	\$0	\$0	50	50	50	\$0	\$0	50	50	\$0	\$0	50
Total Qualified Investment - Service 1070	50	50	\$0 \$0	50 50	\$0	\$0 \$0	50 50	50 50	\$0 \$0	\$0 \$0	50 50	50 50	\$0 50	\$0 \$0
Total Qualified Investment - M&R 1070 Total Qualified Investment - Mains 1010	50 \$3,755,806	50 \$3,755,806	\$3,755,806	\$3,755,806	50 \$4,499,895	\$5,243,984	\$5,988,072	\$6,732,161	\$7,476,250	\$8,220,339	58,964,428	\$9,708,517	\$10,452,606	\$10,452,606
Total Qualified Investment - Service 1010	\$2,0\$3,527	\$2,083,527	\$2,083,527	\$2,083,527	\$2,184,993	\$2,286,460	\$2,387,927	\$2,489,393	\$2,590,860	\$2,692,327	\$2,793,793	\$2,895,260	\$2,996,727	\$2,996,727
Total Qualified Investment - M&R 1010	52,033,527	50	50	50	50	50	\$0	\$0	\$0	50	50	\$0	50	\$0
Total Qualified Investment	\$5,839,332	\$5,839,332	\$5,839,332	\$5,839,332	\$6,684,888	\$7,530,444	\$8,375,999	\$9,221,555	\$10,067,110	\$10,912,666	\$11,758,221	\$12,603,777	\$13,449,332	\$13,449,332
					<u>.</u>						and the state of the state of the second state		2	
Less: Accumulated Depreciation	(\$3,525,995)	(\$3,535,344)	(\$3,544,692)	(\$3,554,040)	(\$3,563,389)	(\$3,573,941)	(\$3,585,696)	(\$3,598,655)	(\$3,612,818)	(\$3,628,184)	(\$3,644,753)	(\$3,662,526)	(\$3,681,502)	(\$3,681,502)
Net Book Value	\$2,313,337	\$2,303,989	\$2,294,640	\$2,285,292	\$3,121,499	\$3,956,503	\$4,790,303	\$5,622,899	\$6,454,293	\$7,284,482	\$8,113,468	\$8,941,251	\$9,767,830	\$9,767,830
	-													
Average Net Qualified Investment	-	\$2,308,663	\$2,299,315	\$2,289,966	\$2,703,396	\$3,539,001	\$4,373,403	\$5,206,601	\$6,038,596	\$6,869,387	\$7,698,975	\$8,527,360	\$9,354,540	
Depreciation Rates		1.60%	1.60%	1.60%	1.69%	1.60%	1.60%	1.60%	1.60%	1.60°è	1.60%	1.60%	1.60%	
Approved Depreciation Rate-Mains Approved Depreciation Rate-Services		2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2,50%	2.50%	2,50%	2.50%	
Approved Depreciation Rate - M&R City Gate		2,50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	
Applored Depictulon Rate - Mark City One		2.50.0	2.30.9	1.50.4	2.50.0	2.20.0	2.50.0	2.50.0	2-70.0	2.0014	2.30.0	1.00.4	2130.0	
Return on Average Net Qualified Investment														
Equity - Cort of Capital, inclusive of Income Tax Gross-up		6.24%	6.24%	6.24%	6.24%	6.24%	6.24%	6.24%	6.24%	6.24%	6.24%	6.24%	6.24%	
Debt - Cost of Capital		1.34%	1.34%	1.34%	1.34%	1.34%	1.34%	1.34%	1.34%	1.34%	1.34%	1.34%	1.34%	
Equity Component - inclusive of Income Tax Gross-up		\$12,013	\$11,964	\$11,916	\$14,067	\$18,415	\$22,757	\$27,092	\$31,422 \$6,753	\$35,744	\$40,061 \$8,610	\$44,372 \$9,536	\$48,676 \$10,461	\$318,499 \$68,452
Debt Component Return Requirement	-	\$2,582 \$14,595	\$2,571 \$14,536	\$2,561	\$3,023	\$3,958	\$4,891 \$27,648	\$5,823 \$32,915	\$38,175	\$7,682 \$43,427	\$48,610	\$53,908	\$59,137	\$386,951
Retain Requirement	-	314,373	\$14,555	314,477	317,070	322,313	327,048	352,715	330,175	313,727	343,071	\$75,708	377,651	2700,771
Investment Expenses														
Depreciation Expense - Mains		\$5,008	\$5,008	\$5,008	\$5,008	\$6,000	\$6,992	\$7,984	\$8,976	\$9,968	\$10,960	\$11,953	\$12,945	\$95,809
Depreciation Expense - Services		\$4,341	\$4,341	\$4,341	\$4,341	\$4,552	\$4,763	\$4,975	\$5,186	\$5,398	\$5,609	\$5,820	\$6,032	\$59,698
Depreciation Expense - M&R City Gate		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	50	50	50	\$0	\$0
Property Taxes		\$3,856	\$3,856	\$3,856	\$3,856	\$3,856	\$3,856	\$3,856	\$3,856	\$3,856	\$3,856	\$3,856	\$3,856	\$46,267
General Public Notice Expense & Customer Notice Expense		\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$12,000
Total Expense	-	\$14,204	\$14,204	\$14,204	\$14,204	\$15,407	\$16,611	\$17,815	\$19,018	\$20,222	\$21,425	\$22,629	\$23,832	\$213,774
Total Revenue Requirements		\$28,759	\$28,740	\$28,681	\$31,294	\$37,780	\$44,259	\$50,729	\$ 57,193	\$63,648	\$70,096	\$76,537	\$82,969	\$600,725

Florida Public Utilities Company
Gas Utility Access and Replace Directive
Projection of Qualified Mains & Services Revenue Requirements
Surcharge Calculation - January 1, 2023 through December 31, 2023
Per Therm Rate

1.	1)/1/23-12/31/23 Qualified Maina & Services Replacement Revenue Requirements Maina Services M&R Net	88?6 12?6 0?6	\$528,638 \$72,087 \$0 \$600,725	s	600,725
2.	TRUE-UP from Prior Period (Over) Under Recovery Estimated thru 12/2022			\$	1,583,781
3.	2023 Qualified Mains & Services Replacement Revenue Requirements			5	2,184,506
	Mains	88?6	\$1,922,365		
	Services	12%	\$262,141		
	M&R	0%6	50		
	Net		\$2,184,506		

RATE SCHEDULE	202 3 THERMS	SERVICES COS %	MAINS COS %	M&R COS %	SERVICES REV REQ	MAINS REV REQ	M&R REV REQ	GUARD REV REQ	DOLLARS FER THERM	TAX FACTOR	FACTORS	TYPICAL ANNUAL THERMS	ANNUAL COST	AVERAGE MONTHLY COST
RES-1	1,520,128	27.37%	1.20%	1.20%	\$71,748	\$23,128	20	\$94,876	\$0.06241	1.00503	\$0.06273	54	\$3.37	\$0.28
RES-2	5,975,749	36.49%	4.71%	4.71%	\$95,645	\$90,624	\$0	\$186,269	\$0.03117	1.00503	\$0.03133	159	\$4.98	\$0,42
RES-3	12,959,345	19.15%	10.05%	10.05%	\$50,188	\$193,126	\$0	\$243,315	\$0.01878	1.00503	\$0.01887	665	\$12.55	\$1.05
RES-SG	96,299	1.09%	0.09%	0.09%	\$2,851	\$1,799	\$0	\$4,649	\$0.04828	1.00503	\$0.04852	109	\$5.29	\$0.44
GS-1	691,996	3.10%	0.60%	0,60%	58,133	\$11,530	\$0	\$19,663	\$0.02841	1.00503	\$0.02856	322	\$9.20	\$0.77
GS-2	7,230,026	4.14%	6.03%	6.03%	\$10,863	\$115,830	\$0	\$126,693	\$0.01752	1.00503	\$0.01761	2,902	\$51.12	\$4.26
GS-3	11,772,608	3,40%	9.57%	9.57%	\$8,922	\$184,048	\$0	\$192,970	\$0.01639	1.00503	\$0.01647	7,312	\$120.46	\$10.04
GS-4	24,944,789	3.66%	19.85%	19.88%	\$9,589	\$382,197	\$0	\$391,786	0.01571	1.00503	0.01579	17,805	\$281.05	\$23.42
GS-5	12,549,693	0.55%	9.71%	9.71%	\$1,434	\$186,615	\$0	\$188,050	\$0.01498	1.00503	\$0.01506	110,084	\$1,657.86	\$138.15
GS-6	11,918,155	0.21%	9.23%	9.23%	\$557	\$177,434	50	\$177,991	\$0.01493	1.00503	\$0.01501	350,534	\$5,261.37	\$438.45
GS-7	9,260,735	0.05%	7.06%	7.06%	\$211	\$135,804	\$0	\$136,015	\$0.01469	1.00503	\$0.01476	771,728	\$11,391.59	\$949.30
GS-8 (A-D)	22,737,656	0.05%	17,26%a	17.26%	\$128	\$331,812	. \$0	\$331,939	\$0.01460	1.00503	\$0.01467	2,842,207	\$41,701.10	\$3,475.09
COM-INT	9,502,459	0.17%	3.58%	3.58%	\$450	\$68,782	\$0	\$69,231	\$0.00729	1.00503	\$0,00732	558,968	\$4,092.92	\$341.08
COM-NGV	1,469,075	0.01%	0.89%	0.89%	\$25	\$17,085	\$0	\$17,110	\$0.01165	1.00503	\$0.01171	340,759	\$3,988.74	\$332.40
COM-OL	99,723	0.02%	0.08%	0.08%	\$48	\$1,470	\$0	\$1,518	\$0.01522	1.00503	\$0.01530	3,439	\$52.61	\$4.38
COM-SG	62,693	0.51%	0.06%	0.06%	\$1,348	\$1,083	\$0	\$2,431	\$0.03878	1.00503	\$0 03 897	207	\$8.06	\$0.67
TOTAL	132,791,038	100%	100%	100%	262,141	1,922,365	0	2,184,506						

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Florida Public Utilities Company Gas Utility Access and Replace Directive Calculation of the Projected Revenue Requirements January 1, 2024 through December 31, 2024

<u>Item</u> Oxalified investment	Beginning <u>Balance</u>	Forecast Ista	Forecast Esh	Forecast Mar	Forecast Apr	Forecast <u>Max</u>	Forecast bm	Forecast Jul	Forecast Aug	Forecast Ssp.	Forecast <u>Det</u>	Forecast <u>Nov</u>	Forecast Des	Year End <u>Total Balance</u>
Outlified Investment - Mains - Current Year 1070 Activity		\$1,632,66\$	\$1,632,668	\$1,632,668	\$1,632,668	\$1,632,668	\$1,632,668	\$1,632,668	\$1,632,668	\$1,632,668	\$1,632,668	\$1,632,668	\$1,632,668	\$19,592,022
Qualified Investment - Mains - Closed 1070 Activity to Flant		(\$1,632,668)	(\$1,632,668)	(\$1,632,668)	(\$1,632,668)	(\$1,632,668)	(\$1,632,668)	(\$1,632,668)	(\$1,632,668)	(\$1,632,668)	(\$1,632,668)	(\$1,632,668)	(\$1,632,668)	(\$19,592,022)
Qualified Investment - Services - Current Year 1070 Activity		\$285,717	\$285,717	\$285,717	\$285,717	\$285,717	\$285,717	\$285,717	\$285,717	\$285,717	\$285,717	\$285,717	\$285,717	\$3,428,604
Qualified Investment - Services - Closed 1070 Activity to Plant		(\$285,717)	(\$285,717)	(\$285,717)	(\$285,717)	(\$285,717)	(\$285,717)	(\$285,717)	(\$285,717)	(\$285,717)	(\$285,717)	(\$285,717)	(\$285,717)	(\$3,428,604)
Qualified Investment - M&R - Current Year 1070 Activity		\$122,450	\$122,450	\$122,450	\$122,450	\$122,450	\$122,450	\$122,450	\$122,450	\$122,450	\$122,450	\$122,450	\$122,450	\$1,469,402
Qualified Investment - M&R - Closed 1070 Activity to Plant		(\$122,450)	(\$122,450)	(\$122,450)	(\$122,450)	(\$122,450)	(\$122,450)	(\$122,450)	(\$122,450)	(\$122,450)	(\$122,450)	(\$122,450)	(\$122,450)	(\$1,469,402)
Qualified Investment - Mains - Current 1010 Activity		\$1,632,668	\$1,632,668	\$1,632,668	\$1,632,668	\$1,632,668	\$1,632,668	\$1,632,668	\$1,632,668	\$1,632,668	\$1,632,668	\$1,632,668	\$1,632,668	\$19,592,022
Qualified Investment - Services - Current 1010 Activity		\$285,717	\$285,717	\$285,717	\$285,717	\$285,717	\$285,717	\$285,717	\$285,717	\$285,717	\$285,717	\$285,717	\$285,717	\$3,428,604
Qualified Investment - M&R - Current 1010 Activity		\$122,450	\$122,450	\$122,450	\$122,450	\$122,450	\$122,450	\$122,450	\$122,450	\$122,450	\$122,450	\$122,450	\$122,450	\$1,469,402
Total Qualified Investment - Mains 1070	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	50	\$0	\$0	\$0	\$0
Total Qualified Investment - Service 1070	\$0	50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Qualified Investment - M&R 1070	50	50	\$0	\$0	\$0	20	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Qualified Investment - Mains 1010	\$10,452,606	\$12,085,274	\$13,717,943	\$15,350,611	\$16,983,280	\$18,615,948	\$20,248,617	\$21,881,285	\$23,513,954	\$25,146,622	\$26,779,290	\$28,411,959	\$30,044,627	\$30,044,627
Total Qualified Investment - Service 1010	\$2,996,727	\$3,282,444	\$3,568,161	\$3,853,878	\$1,139,595	\$4,425,312	\$4,711,029	\$4,996,746	\$5,282,462	\$5,568,179	\$5,853,896	\$6,139,613	\$6,425,330	\$6,425,330
Total Qualified Investment - M&R 1010	\$13,449,332	\$122,450 \$15,490,168	\$244,500 \$17,531,004	\$367,350	\$489,801 \$21,612,675	\$612,251 \$23,653,510	\$734,701 \$25,694,346	\$857,151 \$27,735,181	\$979,601 \$29,776,017	\$1,302,051 \$31,816,853	\$1,224,501 \$33,857,688	\$1,346,951 \$35,898,524	\$1,469,402 \$37,939,359	\$1,469,402 \$37,939,359
tora Qualiaca Investoria	\$15,449,552	\$15,490,168	317,331,004	\$19,371,839	321,012,673	\$23,633,510	323,074,346	327,733,181	329,170,017	331,810,833	\$33,837,088	\$33,678,324	\$31,339,337	\$31,737,327
Less: Accumulated Depreciation	(\$3,681,502)	(\$3,701,938)	(\$3,725,400)	(\$3,751,889)	(\$3,781,406)	(\$3,813,950)	(\$3,849,522)	(\$3,888,120)	(\$3,929,746)	(\$3,974,399)	(\$4,022,079)	(\$4,072,787)	(\$4,126,521)	(\$4,126,521)
Net Book Value	\$9,767,830	\$11,788,230	\$13,805,604	\$15,819,950	\$17,831,268	\$19,839,560	\$21,844,824	\$23,847,061	\$25,846,271	\$27,842,454	\$29,835,609	\$31,825,737	\$33,812,838	\$33,812,838
Average Net Qualified Investment	-	\$10,778,030	\$12,796,917	\$14,812,777	\$16,825,609	\$18,835,414	\$20,842,192	\$22,845,943	\$24,846,666	\$26,844,362	\$28,839,031	\$30,830,673	\$32,819,288	
Depreciation Rates														
Approved Depreciation Rate-Mains		1.60%	1.60%	1.60%	1.60%	1.60%	1.60%	1.60%	1.60%	1.60%	1.60%	1.60%	1.60%	
Approved Depreciation Rate-Services		2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	
Approved Depreciation Rate - M&R City Gate		2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	
Return on Average Net Quilified Investment														
Equity - Cost of Capital, inclusive of Income Tax Gross-up		6.24%	6.24%	6.24%	6.24%	6.24%	6.24%	6.24%	6.24%	6.24%	6,24%	6.24%	6.24%	
Debt - Cost of Capital		1.34%	1.34%	1.34%	1.34%	1.34%	1.34%	1.34%	1.34%	1.34%	1.34%	1.34%	1.34%	
Equity Component - inclusive of Income Tax Gross-up		\$56,083	\$66,588	\$77.078	\$\$7,551	\$98,009	\$108,451	\$118,878	\$129,288	\$139,683	\$150,062	\$160,426	\$170,773	\$1,362,871
Debt Component		\$12,053	\$14,311	\$16,565	\$18,817	\$21,064	\$23,309	\$25,549	\$27,787	\$30,021	\$32,252	\$34,479	\$36,703	\$292,910
Return Requirement		\$63,136	\$80,899	\$93,643	\$106,368	\$119,073	\$131,760	\$144,427	\$157,075	\$169,704	\$182,314	\$194,905	\$207,476	\$1,655,781
Investment Expenses														
Depreciation Expense - Maina		\$13,937	\$16,114	\$18,291	\$20,467	\$22,644	\$24,821	\$26,998	\$29,175	\$31,352	\$33,529	\$35,706	\$37,883	\$310,917
Depreciation Expense - Services		\$6.243	\$6,838	\$7.434	\$8.029	\$8.624	\$9,219	\$9.815	\$10,410	\$11,005	\$11,600	\$12,196	\$12,791	\$114,204
Depreciation Expense - M&R City Gate		\$255	\$510	\$765	\$1,020	\$1,276	\$1,531	\$1,786	\$2,041	\$2,296	\$2,551	\$2,806	\$3,061	\$19,898
Property Taxes		\$16,280	\$16,280	\$16,280	\$16,280	\$16,280	\$16,280	\$16,280	\$16,280	\$16,280	\$16,280	\$16,280	\$16,280	\$195,357
General Public Notice Expense & Customer Notice Expense		\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,030	\$1,000	\$1,000	\$12,000
Total Expense	-	\$37,715	\$40,742	\$43,769	\$46,797	\$49,824	\$52,851	\$55,878	\$58,905	\$61,933	\$64,960	\$67,987	\$71,014	\$652,376
Total Revenue Requirements		\$105.851	\$121,641	\$137,412	\$153,164	\$168,897	\$184,611	\$200,305	\$215,981	\$231,637	\$247,274	\$262,892	\$278,491	\$2,308,157

recised neutron	renou (over) cauer reco	very Estimated thru 12/2025		\$											
2024 Qualified Mains Mains Services M&R Net	& Services ReplacementR	evenue Requirements	80% 14% 6%	\$ \$1,846,525 \$323,142 \$138,489 \$2,308,157	2,308,157										
RATE SCHEDULE	2023 THERMS	SERVICES		MAINS COS %	M&R COS %	SERVICES REV REQ	MAINS REV REQ	M&R REV REQ	GUARD REV REQ	DOLLARS FER THERM	TAX FACIOR		TYPICAL ANNUAL THERMS	ANNUAL COST	AVERA MONTH COST
RES-1	1,520,128	;	7.37%	1.20%	1.20%	\$88,444	\$22,215	\$1,656	\$112,325	\$0.07389	1.00503	\$0.07426	54	\$4.00	\$0.
RES-2	5,975,749	:	6.49?5	4.71%	4.71%	\$117,902	\$\$7,049	\$6,529	\$211,480	\$0.03539	1.00503	\$0.03557	159	\$5.65	\$0.4
RES-3	12,959,345	1	9.15%	10.05%	10.05°è	\$61,867	\$185,507	\$13,913	\$261,288	\$0.02016	1.00503	\$0.02026	665	\$13.47	\$1.
RES-SG	96,299		1.09%	0.09%	0.09%	\$3,514	\$1,728	\$130	\$ 5,371	\$0.05578	1.00503	\$0.05606	109	\$6.11	\$0.
GS-1	691,996		3.10%	0.60%	0.60%	\$10,026	\$11,075	\$831	\$21,931	\$0.03169	1.00503	\$0.03185	322	\$10.26	\$0.
GS-2	7,230,026		4.14%	6.03%	6.03%	\$13,391	\$111,260	\$8,344	\$132,995	\$0.01839	1.00503	\$0.01849	2,902	\$53.66	\$4
GS- 3	11,772,608		3.40%	9.57%	9.57%	\$10,998	\$176,787	\$13,259	\$201,044	\$0.01708	1.00503	\$0.01716	7,312	\$125.50	\$10
GS-4	24,944,789		3.66%	19.88%	19.88%	\$11,820	\$367,119	\$27,534	\$406,473	0.01629	1.00503	0.01638	17,805	\$291.59	\$24
GS-5	12,549,603		0.55%	9.71%	9.71%	\$1,768	\$179,253	\$13,444	\$194,465	\$0.01550	1.00503	\$0.01557	110,084	\$1,714.41	\$142
GS-6	11,918,155		0.21°s	9.23%	9.23°6	\$687	\$170,434	\$12,783	\$183,903	\$0.01543	1.00503	\$0.01551	350,534	\$5,436.13	\$453
GS-7	9,260,735		0.0\$*6	7.06%	7.06%	\$260	\$130,446	\$9,783	\$140,490	\$0.01517	1.00503	\$0.01525	771,728	\$11,766.37	\$ 980
GS-8 (A-D)	22,737,656		0.05%	17.26%	17.26%	\$157	\$318,721	\$23,904	\$342,782	\$0.01508	1.00503	\$0.01515	2,842,207	\$43,063.33	\$3,588
COM-INT	9,502,459		0.17%	3.58%	3.58%	\$554	\$66,068	\$4,955	\$71,578	\$0.00753	1.00503	\$0.00757	558,968	\$4,231.63	\$352
COM-NGV	1,469,075		0.01%	0.89%	0.89%	\$31	\$16,411	\$1,231	\$17,673	\$0.01203	1.00503	\$0.01209	340,759	\$4,119.92	\$343
COM-OL	99,723		0.02%	0.05%	0.05%	\$59	\$1,412	\$106	\$1,577	\$0.01582	1.00503	\$9.01590	3,439	\$54.66	54
COM-SG	62,693		0.51%	0.06%	0.06%	\$1,662	\$1,040	\$78	\$2,780	\$0.04434	1.00503	\$0.04457	207	\$9.22	\$0
TOTAL	132,791,038		100%	100%	100%	323,142	1,846,525	138,459	2,308,157						

\$ 2,308,157 \$1,846,525 \$333,142 \$138,489 \$2,308,157

\$

80% 14% 6%

Florida Public Utilities Company Cas Utility Access and Replace Directive Projection of Qualifed Mains & Services Revenue Requirements Surcharge Calculation - Janusy 1, 2024 through December 31, 2024 Per Them Rate

D/121-12/01/24 Qualified Mains & Services Replacement Revenue Requirements Mains Services Main
 Net

2. TRUE-UP from Prior Period (Over) Under Recovery Estimated thru 12/2023

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Exhibit ROG 27 Page 6 of 21

Florida Public Utilities Company Oa Utiliy Access and Replace Directive Calculation of the Projected Revence Requirements January 1, 2025 through December 31, 2025

litm Oxilifed Investment	Beginning Balance	Forecast <u>Ian</u>	Forecast <u>Ech</u>	Forecast MM	Forecast Arx	Forecast Max	Forecast Jun	Forecast Jul	Forecast Aug	Forecast <u>Ssp</u>	Forecast <u>Oil</u>	Forecast <u>Nov</u>	Forecast Dec	Yezr End <u>Total Balance</u>
Qualified Investment - Mains - Current Year 1070 Activity		\$1,839,326	\$1,839,326	\$1,839,326	\$1,839,326	\$1,839,326	\$1,839,326	\$1,839,326	\$1,839,326	\$1,839,326	\$1,839,326	\$1,839,326	\$1.839.326	\$22,071,914
Qualified Investment - Mains - Closed 1070 Activity to Plant		(\$1,839,326)	(\$1,839,326)	(\$1,839,326)	(\$1,839,326)	(\$1,839,326)	(\$1,839,326)	(\$1,839,326)	(\$1,839,326)	(\$1,839,326)	(\$1,839,326)	(\$1,839,326)	(\$1,839,326)	(\$22,071,914)
Qualified Investment - Services - Current Year 1070 Activity		\$321,882	\$321,882	\$321,882	\$321,882	\$321,882	\$321,882	\$321,882	\$321,882	\$321,882	\$321,882	\$321,882	\$321,882	\$3,862,585
Qualified Investment - Services - Clatent 1070 Activity to Plant		(\$321,882)	(\$321,882)	(\$321,882)	(\$321,882)	(\$321,882)	(\$321,882)	(\$321,882)	(\$321,882)	(\$321,882)	(\$321,882)	(\$321,882)	(\$321,882)	(\$3,862,585)
Qualified Investment - M&R - Current Year 1070 Activity		\$137,949	\$137,949	\$137,949	\$137,949	\$137,949	\$137,949	\$137,949	\$137,949	\$137.949	\$137,949	\$137,949	\$137,949	\$1,655,394
Qualified Investment - M&R - Closed 1070 Activity to Flant		(\$137,949)	(\$137,949)	(\$137,949)	(\$137,949)	(\$137,949)	(\$137,949)	(\$137,949)	(\$137,949)	(\$137,949)	(\$137,949)	(\$137,949)	(\$137,949)	(\$1,655,394)
Qualified Investment - Mains - Current 1010 Activity		\$1,839,326	\$1,839,326	\$1,839,326	\$1.839.326	\$1,839,326	\$1,839,326	\$1,839,326	\$1,839,326	\$1,839,326	\$1,839,326	\$1,839,326	\$1,839,326	\$22.071.914
Qualified Investment - Services - Current 1010 Activity		\$321,882	\$321,882	\$321,882	\$321,882	\$321.8\$2	\$321,882	\$321,882	\$321,882	\$321,882	\$321.882	\$321,882	\$321,882	\$3,862,585
Qualified Investment - M&R - Current 1010 Activity		\$137,949	\$137,949	\$137,949	\$137,949	\$137,949	\$137,949	\$137,949	\$137,949	\$137,949	\$137,949	\$137,949	\$137,949	\$1,655,394
Qualified Investment - Mark - Cultera Toto Acavity		3337,743	\$137,343	\$157,745	\$137,949	\$157,949	\$131,745	3137,747	\$151,545	3131,743	\$157,949	\$157,745	\$157,949	31,055,574
Total Qualified Investment - Mains 1070	\$0	\$0	\$0	50	\$0	\$0	\$0	\$0	50	\$0	50	50	\$0	\$0
Total Quilified Investment - Service 1070	\$0	\$0	\$0	50	\$0	\$0	\$0	\$0	\$0	\$0	50	\$0	\$0	\$0
Total Qualified Investment - M&R 1070	\$0	\$0	\$0	50	50	50	\$0	50	\$0	\$0	\$0	\$0	\$0	\$0
Total Qualified Investment - Mains 1010	\$30,044,627	\$31,883,954	\$33,723,280	\$35,562,606	\$37,401,932	\$39,241,258	\$41,080,585	\$12,919,911	\$44,759,237	\$46,598,563	\$48,437,889	\$50,277,216	\$52,116,542	\$52,116,542
Total Qualified Investment - Service 1010	\$6,425,330	\$6,747,213	\$7,069,095	\$7,390,977	\$7,712,859	\$8,034,741	\$8,356,623	\$8,678,505	\$9,000,387	\$9,322,269	\$9,644,151	\$9,966,033	\$10,287,915	\$10,287,915
Total Qualified Investment - M&R 1010	\$1,469,402	\$1,607,351	\$1,745,301	\$1,883,250	\$2,021,199	\$2,159,149	\$2,297,098	\$2,435,048	\$2,572,997	\$2,710,947	\$2,848,896	\$2,986,846	\$3,124,795	\$3,124,795
Total Qualified Investment	\$37,939,359	\$40,238,517	\$42,537,675	\$44,836,833	\$47,135,990	\$49,435,148	\$51,734,306	\$54,033,464	\$56,332,621	\$58,631,779	\$60,930,937	\$63,230,095	\$65,529,252	\$65,529,252
Less: Accumulated Depreciation	(\$4,126,521)	(\$4,183,316)	(\$4,243,520)	(\$4,307,135)	(\$4,374,161)	(\$4,444,597)	(\$4,518,443)	(\$4,595,700)	(\$4,676,367)	(\$4,760,445)	(\$4,847,933)	(\$4,938,831)	(\$5,033,140)	(\$5,033,140)
Net Book Value	\$33,812,838	\$36,055,202	\$38,294,155	\$40,529,697	\$42,761,829	\$44,990,551	\$47,215,863	\$49,437,764	\$51,656,254	\$53,871,334	\$56,083,004	\$58,291,263	\$60,496,112	\$60,496,112
													\$59,393,688	
Average Net Qualified Investment	-	\$34,934,020	\$37,174,678	\$39,411,926	\$41,645,763	\$43,876,190	\$46,103,207	\$48,326,813	\$50,547,009	\$52,763,794	\$54,977,169	\$57,187,134	\$59,393,688	
Depreciation Rates														
Approved Depreciation Rate-Mains		1.60%	1.60%	1.60%	1.60%	1.60%	1,60%	1.60%	1.60%	1.60%	1,60%	1,60%	1.60%	
Approved Depreciation Rate-Services		2,50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	
Approved Depreciation Rate - M&R City Gate		2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	
Approved Depreciation Kate - Mark City Offe		2.50.8	2.10.9	2.30.4	2.50.4	1.50.0	1.70.0	2.20.0	2.50.4	2,0.6	2.70.0	2.20.0	2.50.4	
Return on Average Net Oualified Investment														
Equity - Cost of Capital, inclusive of Income Tax Gross-up		6.24%	6.24%	6.24%	6.24%	6.24%	6.24%	6.24%	6.24%	6.24%	6.24%	6.24%	6.24%	
Debt - Cost of Capital		1.34%	1.34%	1.34%	1.34%	1.34%	134%	1.34%	1.34%	1.34%	1.34%	1.34%	1.34%	
Equity Component - inclusive of Income Tax Gross-up		\$181,777	\$193,436	\$205,078	\$216,702	\$228,307	\$239,896	\$251,466	\$263,019	\$274,554	\$286,071	\$297,570	\$309,052	\$2,946,927
Debt Component		\$39,06\$	\$41,574	\$44,076	\$46,574	\$49,068	\$51,559	\$54,045	\$56,528	\$59,008	\$61,483	\$63,954	\$66,422	\$633,358
Return Requirement		\$220,845	\$235,010	\$249,154	\$263,275	\$277,376	\$291,454	\$305,512	\$319,547	\$333,561	\$347,554	\$361,525	\$375,474	\$3,580,286
Investment Expenses						******				\$59.679		\$64,584		\$642,575
Depreciation Expense - Mains		\$40,060	\$42,512	\$44,964	\$47,417	\$49,869	\$52,322	\$54,774	\$57,227		\$62,131		\$67,036	
Depreciation Expense - Services		\$13,386	\$14,057	\$14,727	\$15,398	\$16,068	\$16,739	\$17,410	\$18,080	\$18,751	\$19,421	\$20,092	\$20,763	\$204,892
Depreciation Expense - M&R City Gate		\$3,349	\$3,636	\$3,923	\$4,211	\$4,498	\$4,786	\$5,073	\$5,360	\$5,648	\$5,935	\$6,223	\$6,510	\$59,152
Property Taxes		\$56,355	\$56,355	\$56,355	\$56,355	\$56,355	\$56,355	\$56,355	\$56,355	\$56,355	\$56,355	\$56,355	\$56,355	\$676,257
General Public Notice Expense & Customer Notice Expense	-	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000 \$148,253	\$1,000 \$151,664	\$12,000
Total Expense	-	\$114,149	\$117,559	\$120,970	\$124,380	\$127,791	\$131,201	\$134,611	\$138,022	\$141,432	\$144,843	\$148,253	\$151,664	\$1,594,875
Total Revenue Requirements		\$334,994	\$352,570	\$370,123	\$387.656	\$405,166	\$422,655	\$440,123	\$457,569	\$474,993	\$492,396	\$509,778	\$527,137	\$5,175,161
tere terene requiring		******	*******	3210,123	2207,020	2402120	********	********	******	*******	4174274			

 2025 Qualified Mains - Mains Services M&R Net 	& Services Replacemen	t Revenue Requirements 80% 14% 6% 	5 \$4,140,129 \$724,523 \$310,510 \$5,175,161	5,175,161										
RATE SCHEDULE	2023 THERMS	SERVICES COS %	MAINS COS %	M&R COS %	SERVICES REV REQ	MAINS REV REQ	M&R REV REQ	GUARD REV REQ	DOLLARS PER THERM	TAX FACIOR		TYFICAL ANNUAL THERMS	ANNUAL COST	AVERAGE MONTHLY COST
RES-1	1,520,128	27.37%	1.20%	1.20%	\$198,302	\$49,809	\$3,736	\$251,847	\$0,16567	1.00503	\$0,16651	54	\$8.96	\$0.75
RES-2	5,975,749	36.49%	4.71%	4.71%	\$264,350	\$195,174	\$14,638	\$474,163	\$0.07935	1.00503	\$0.07975	159	\$12.68	\$1.06
RES-3	12,959,345	19.15%	10.05%	10.05%	\$138,714	\$415,929	\$31,195	\$585,838	\$0.04521	1.00503	\$0.04543	665	\$30.21	\$2.52
RES-SG	96,299	1.09%	0.09%	0.09%	\$7,879	\$3,874	\$291	\$12,043	\$ 0,12506	1.00503	\$0.12569	109	\$13.71	\$1.14
G5-1	691,996	3.10%	0.60%	0.60%	\$22,479	\$24,831	\$1,862	\$49,172	\$0.07106	1.00503	\$0.07142	322	\$23.01	\$1.92
GS-2	7,230,026	4.14%	6.03%	6.03%	\$30,024	\$249,458	\$18,709	\$298,191	\$0.04124	1.00503	\$6.04145	2,902	\$120.31	\$10.03
GS-3	11,772,608	3.40%	9.57%	9.57%	\$24,659	\$396,378	\$29,728	\$450,765	\$0.03829	1.00503	\$0.03848	7,312	\$281.39	\$23.45
G5-4	24,944,789	3.65%	19.88%	19.88%	\$26,503	\$823,124	\$61,734	\$911,361	0.03654	1.00503	0.03672	17,805	\$653.78	\$54.48
GS-5	12,549,603	0.55%	9,71%	9.71%	\$3,965	\$401,906	\$30,143	\$436,014	\$0.03474	1.00503	\$0.03492	110,084	\$3,843.92	\$320.33
GS-6	11,918,155	0.21%	9.23%	9.23%	\$1,539	\$382,134	\$28,660	\$412,333	\$0.03460	1.00503	\$0.03477	350,534	\$12,188.45	\$1,015.70
GS-7	9,260,735	0.05%	7.06°è	7.06%	\$583	\$292,476	\$21,936	\$314,995	\$0.03401	1.00503	\$0.03419	771,728	\$26,381.60	\$2,198.47
G5-8 (A-D)	22,737,656	0.05%	17.26%	17.26%	\$353	\$714,611	\$53,596	\$768,559	\$0.03380	1.00503	\$0.03397	2,842,207	\$96,553.10	\$8,046.09
COM-INT	9,502,459	0,17%	3.58%	3.58%	\$1,243	\$148,133	\$11,110	\$160,486	\$0.01689	1.00503	\$0.01697	558,968	\$9,487.82	\$790.65
COM-NGV	1,469,075	0.01%	0.89%	0.89%	\$70	\$36,795	\$2,760	\$39,625	\$0,02697	1.00503	\$0.02711	340,759	\$9,237.34	\$769.78
COM-OL	99,723	0.02%	0.08%	0.0\$*6	\$133	\$3,166	\$237	\$3,536	\$0,03546	1.00503	\$0.03564	3,439	\$122.56	\$10.21
COM-SG	62,693	0.51%	0.06%	0.06%	\$3,726	\$2,332	\$175	\$6,233	\$0.09942	1.00503	\$0.09992	207	\$20.67	\$1.72
TOTAL.	132,791,038	100%	100%	109%	724,523	4,140,129	310,510	5,175,161						

	Florida Public Utilitles Company Ga túbij Accessa Replace Directive Projeción of Quilind Minin & Savices Revouws Requirems Surcharge Calculation – Jonaury, 1, 2023 deregab Docember 31, 20 Per Therm Rate				
1.	1/1/25-12/31/25 Qualified Mains & Services Replacement Revenue Requirements			s	5,175,161
	Mains	80%	\$4,140,129		
	Services	14%	\$724,523		
	M&R	6%	\$310,510		
	Net		\$5,175,161		
2.	TRUE-UP from Prior Period (Over) Under Recovery Estimated thru 12/2024			5	
3.	2025 Qualified Mains & Services Replacement Revenue Requirements			5	5,175,161
	Mains	\$0%	\$4,140,129		
	Services	14%	\$724,523		
	M&R	6%	\$310,510	_	
	Net		\$5,175,161		

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Exhibit ROG 27 Page 8 of 21

Florida Public Utilities Company Gu Utility Access and Replace Directive Calculation of the Projected Revenue Requirements January 1, 2026 through December 31, 2026

Jirm Oulified investment	Beginning Balance	Forecast Im	Forecast <u>Exb</u>	Forecast <u>Mar</u>	Forecast Apr	Forecast <u>Max</u>	Forecast <u>Jun</u>	Forecast Ist	Forecast Aux	Forecast Sen	Forecast Oct	Forecast <u>Nov</u>	Forecast Drc	Year End <u>Total Balance</u>
Qualified Investment - Mains - Current Year 1070 Activity		\$1,839,326	\$1,839,326	\$1,839,326	\$1,839,326	\$1,839,326	\$1,839,326	\$1,839,326	\$1,839,326	\$1,839,326	\$1,839,326	\$1,839,326	\$1,839,326	\$22,071,914
Qualified Investment - Mains - Closed 1070 Activity to Plant		(\$1,839,326)	(\$1,839,326)	(\$1,839,326)	(\$1,839,326)	(\$1,839,326)	(\$1,839,326)	(\$1,839,326)	(\$1,839,326)	(\$1,839,326)	(\$1,839,326)	(\$1,839,326)	(\$1,839,326)	(\$22,071,914)
Qualified Investment - Services - Current Year 1070 Activity		\$321,882	\$321,882	\$321,882	\$321,882	\$321,882	\$321,882	\$321,882	\$321,882	\$321,882	\$321,882	\$321,882	\$321,882	\$3,862,585
Qualified Investment - Services - Closed 1070 Activity to Plant Qualified Investment - M&R - Current Year 1070 Activity		(\$321,882) \$137,949	(\$321,882) \$137,949	(\$321,882) \$137,949	(\$321,882) \$137,949	(\$321,882) \$137,949	(\$321,182) \$137,949	(\$3,862,585) \$1,655,394						
Qualified Investment - M&R - Cloted 1070 Activity to Plant		(\$137,949)	(\$137,949)	(\$137,949)	(\$137,949)	(\$137,949)	(\$137,949)	(\$137,949)	(\$137,949)	(\$137,949)	(\$137,949)	(\$137,949)	(\$137,949)	(\$1,655,394)
Qualified Investment - Mains - Current 1010 Activity		\$1,839,326	\$1,839,326	\$1,839,326	\$1,839,326	\$1,839,326	\$1,839,326	\$1.839.326	\$1,839,326	\$1,839,326	\$1,839,326	\$1,839,326	\$1,839,326	\$22,071,914
Qualified Investment - Services - Current 1010 Activity		\$321,882	\$321,882	\$321,882	\$321,882	\$321,882	\$321,882	\$321,882	\$321,882	\$321,882	\$321,882	\$321,882	\$321,882	\$3,862,585
Qualified Investment - M&R - Current 1010 Activity		\$137,949	\$137,949	\$137,949	\$137,949	\$137,949	\$137,949	\$137,949	\$137,949	\$137,949	\$137,949	\$137,949	\$137,949	\$1,655,394
Total Qualified Investment - Mains 1070	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	50	\$0	\$0
Total Qualified Investment - Service 1070	\$0	50 50	50 50	\$0	\$0	50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	50 50
Total Qualified Investment - M&R 1070 Total Qualified Investment - Mains 1010	\$0 \$52,116,542	\$53,955,868	\$0 \$55,795,194	\$0 \$57,634,520	\$0 \$59,473,847	\$0 \$61,313,173	\$0 \$63,152,499	\$0 \$64,991,825	50 \$66,831,151	\$0 \$68,670,478	50 \$70,509,804	50 \$72,349,130	\$0 \$74,188,456	\$74,188,456
Total Qualified Investment - Service 1010	\$10,287,915	\$10,609,798	\$10,931,680	\$11,253,562	\$11,575,444	\$11,897,326	\$12,219,208	\$12,541,090	\$12,862,972	\$13,184,854	\$13,506,736	\$13,828,618	\$14,150,500	\$14,150,500
Total Qualified Investment - M&R 1010	\$3,124,795	\$3,262,745	\$3,400,694	\$3,538,644	\$3,676,593	\$3,814,543	\$3,952,492	\$4,090,441	\$4,228,391	\$4,366,340	\$4,504,290	\$1,642,239	\$4,780,189	\$4,780,189
Total Qualified Investment	\$65,529,252	\$67,828,410	\$70,127,568	\$72,426,726	\$74,725,883	\$77,025,041	\$79,324,199	\$\$1,623,357	\$83,922,514	\$86,221,672	\$88,520,830	\$90,819,988	\$93,119,145	\$93,119,145
Less: Accumulated Depreciation	(\$5,033,140)	(\$5,130,859)	(\$5,231,989)	(\$5,336,529)	(\$5,444,480)	(\$5,555,841)	(\$5,670,612)				(1 () () () ()	(\$6,295,625)		(64 130 850)
Net Book, Value	\$60,496,112	\$62,697,551	\$64,895,579	\$67,090,197	\$69,281,404	\$71,469,201	\$73,653,587	(\$5,788,794) \$75,834,563	(\$5,910,386) \$78.012,129	(\$6,035,388) \$80,186,284	(\$6,163,801) \$82,357,028	\$84,524,363	(\$6,430,859) \$86,688,287	(\$6,430,859) \$86,688,287
	000,000,000	001,001,001	2010/01/01		307,201,101	01111001201			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	000,000,200	102007,020	11,011,000	200,000,207	
Average Net Qualified Investment		\$61,596,832	\$63,796,565	\$65,992,888	\$68,185,800	\$70,375,302	\$72,561,394	\$74,744,075	\$76,923,346	\$79,099,206	\$81,271,656	\$83,440,696	\$\$5,606,325	
Depreciation Rates														
Approved Depreciation Rate-Mains		1.60%	1.60%	1.60%	1.60%	1.60%	1.60%	1.60%	1,60%	1.60%	1.60%	1.60%	1.60%	
Approved Depreciation Rate-Services		2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	
Approved Depreciation Rate - M&R City Gate		2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	
Return on Average Net Qualified Investment														
Equity - Cost of Capital, inclusive of Income Tax Gross-up		6.24%	6.24%	6.24%	6.24%	6.24%	6.24°è	6.24%	6.24%	6.24%	6.24%	6.24°è	6.24%	
Debt - Cost of Capital		1.34%	1.34%	1.34%	1.34%	1.34%	1.34%	1_34%	1.34%	1.34%	1.34%	1.34%	1.34%	
Equity Component - inclusive of Income Tax Gross-up		\$320,516	\$331,962	\$343,391	\$354,801	\$366,194	\$377,569	\$388,927	\$400,267	\$411,589	\$422,893	\$434,179	\$445,448	\$4,597,735
Debt Component .	_	\$68,886	\$71,346	\$73,802	\$76,254	\$78,703	\$81,148	\$83,589	\$86,026	\$88,459	\$90,889	\$93,315	\$95,736	\$988,153
Return Requirement	-	\$389,402	\$403,308	\$417,193	\$431,056	\$444,897	\$458,717	\$472,516	\$486,293	\$500,048	\$513,782	\$527,494	\$541,184	\$5,585,888
Investment Expenses														
Depreciation Expense - Mains		\$69,489	\$71,941	\$74,394	\$76,846	\$79,298	\$\$1,751	584,203	\$\$6,656	\$89,108	\$91,561	\$94,013	\$96,466	\$995,725
Depreciation Expense - Services		\$21,433	\$22,104	\$22,774	\$23,445	\$24,116	\$24,786	\$25,457	\$26,127	\$26,798	\$27,468	\$28,139	\$28,810	\$301,457
Depreciation Expense - M&R City Gate		\$6,797	\$7,085	\$7,372	\$7,660	\$7,947	\$8,234	\$8,522	\$8,809	\$9,097	\$9,384	\$9,671	\$9,959	\$100,537
Property Taxes		\$100,827	\$100,827	\$100,827 \$1,000	\$100,827	\$100,827 \$1,000	\$100,827 \$1,000	\$100,827 \$1,000	\$100,827 \$1,000	\$100,827 \$1,000	\$100,827 \$1,000	\$100,827 \$1,000	\$100,827 \$1,000	\$1,209,922 \$12,000
General Public Notice Expense & Customer Notice Expense Total Expense	-	\$1,000	\$1,000	\$206,367	\$1,000	\$1,030	\$216,598	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$12,000
Louis Leptine	•	2.77,740		+10(307	2233,111	2213,100	2-10,778	3220,003	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	\$220,825	\$250,240	2233,070		54517,041
Total Revenue Requirements		\$588,948	\$606,264	\$623,559	\$640,833	\$658,085	\$675,315	\$692,524	\$709,712	\$726,877	\$744,021	\$761,144	\$778,245	\$8,205,529

2. TRUE-UP from Prior	Period (Over) Under Recov	ery Estimated thru 12/2025		\$	-										
 2026 Qualified Maine Mains Services M&R Net 	s & Services Replacement R	evenus Requirements	80% 14% 6%	\$ \$6,564,423 \$1,148,774 <u>\$492,332</u> \$8,205,529	8,205,529										
RATE SCHEDULE	2023 THERMS	SERVICES COS %		MAINS COS %	M&R COS %	SERVICES REV REQ	MAINS REV REQ	M&R REV REQ	GUARD REV REQ	DOLLARS PER THERM	TAX FACTOR	GUARD FACTORS FER THERM	TYPICAL ANNUAL THERMS	ANNUAL COST	AVERAGE MONTHLY COST
RES-1	1,520,128		27.37%	1.20%	1.20%	\$314,420	\$78,975	\$5,923	\$399,318	\$0.26269	1.00503	\$0.26401	54	\$14.20	\$1.18
RES-2	5,975,749		36.19%	4.71%	4.71%	\$419,143	\$309,461	\$23,210	\$751,814	\$0,12581	1.00503	\$0.12644	159	\$20.10	\$1.68
RES-3	12,959,345		19.15%	10.05%	10.05%	\$219,940	\$659,481	\$49,461	\$928,881	\$0.07168	1.00503	\$0.07204	665	\$47,90	\$3.99
RES-SG	96,299		1.09?5	0.09%	0.09%	\$12,493	\$6,142	\$461	\$19,096	\$0.19830	1.00503	\$0,19929	109	\$21.73	\$1.81
GS-1	691,996		3.10%	0.60%	0.60%	\$35,641	\$39,371	\$2,953	\$77,966	\$0.11267	1.00503	\$0.11323	322	\$36.48	\$3.04
GS-2	7,230,026		4.14%	6.03°è	6.03%	\$47,605	\$395,531	\$29,665	\$472,800	\$0.06539	1.00503	\$0.06572	2,902	\$190.76	\$15.90
GS-3	11,772,603		3.40%	9.57°è	9,57%	\$39,099	\$628,480	\$47,136	\$714,715	\$0.06071	1.00503	\$0.06102	7,312	\$446.16	\$37.18
GS-4	24,944,789		3,66%	19.88%	19.88%	\$42,022	\$1,305,112	\$97,883	\$1,445,018	0.05793	1.00503	0.05822	17,805	\$1,036.61	\$86.38
GS-5	12,549,603		0.55%	9.71%	9.71%	\$6,286	\$637,246	\$47,793	\$691,326	\$0.05509	1.00503	\$0.05536	110,084	\$6,694.77	\$507.90
GS-6	11,918,155		0.21%	9.23%	9.23%	\$2,441	\$605,896	\$45,442	\$653,779	\$0.05486	1.00503	\$0.05513	350,534	\$19,325.51	\$1,610.46
GS-7	9,260,735		0.05%	7.05%	7,06%	\$924	\$463,739	\$34,780	\$499,443	\$0.05393	1.00503	\$0.05420	771,728	\$41,829.60	\$3,485.80
GS-8 (A-D)	22,737,656		0.05°a	17.26%	17.26%	\$559	\$1,133,058	\$84,979	\$1,218,596	\$0.05359	1.00503	\$0.05386	2,842,207	\$153,090.73	\$12,757.56
COM-INT	9,502,459		0.17%	3.58%	3.58%	\$1,971	\$234,873	\$17,616	\$254,460	\$0.02678	1.00503	\$0,02691	558,968	\$15,043.50	\$1,253.63
COM-NGV	1,469,075		0.01%	0.89%	0.89%	\$111	\$58,340	\$4,376	\$62,827	\$0.04277	1.00503	\$0.04298	340,759	\$14,646.36	\$1,220.53
COM-OL	99,723		0.02%	0.08%	0.08%	\$211	\$5,019	\$376	\$5,607	\$0.05623	1.00503	\$0.05651	3,439	\$194.32	\$16.19
COM-SG	62,693		0.51%	0.06%	0.06%	\$5,908	\$3,698	\$277	\$9,883	\$0.15764	1.00503	\$0.15843	207	\$32.78	\$2,73
TOTAL	132,791,038		100%	100%	100%	1,148,774	6,564,423	492,332	8,205,529						

\$ 8,205,529 \$6,564,423 \$1,148,774 \$492,332 \$8,201,529 \$ -\$

80% 14% 6%_____

F	lorida Public Utilities Company
	Gas Utility Access and Replace Directive
Projection of	of Qualified Mains & Services Revenue Requirements
Surcharge Ca	culation - January 1, 2026 through December 31, 2026
U U	Per Therm Rate

11/126-12/31/26 Qualified Mains & Services Replacement Revenue Requirements Mains Services M&R Net

2. TRUE-UP from Prior Period (Over) Under Recovery Estimated thru 12/2025

Eshbit ROG 27 Page 9 of 21

Eahibit ROG 27 Page 10 of 21

Florida Public Utilities Company Ga Utility Access and Replace Directive Calculation of the Projected Revenue Requirements January 1, 2027 through December 31, 2027

ltem	Beginning Balance	Forecasi Jan	Forecast <u>Feb</u>	Forecast Mat	Forecast Arx	Forecast <u>Mar</u>	Forecast Jun	Forecast Jul	Forecast Alla	Forecast <u>Sen</u>	Forecast <u>Oct</u>	Forecast <u>New</u>	Forecast Dec	Year End <u>Total Balance</u>
Qualified Investment Oualified Investment - Mains - Current Year 1070 Activity		\$1,726,709	\$1,726,709	\$1,726,709	\$1,726,709	\$1,726,709	\$1,726,709	\$1,726,709	\$1,726,709	\$1,726,709	\$1,726,709	\$1,726,709	\$1,726,709	\$20,720,505
Outlified Investment - Mains - Closed 1070 Activity to Plant		(\$1,726,709)	(\$1,726,709)	(\$1,726,709)	(\$1,726,709)	(\$1,726,702)	(\$1,726,709)	(\$1,726,709)	(\$1,726,709)	(\$1,726,709)	(\$1,726,709)	(\$1,726,709)	(\$1,726,709)	(\$20,720,505)
Oualified Investment - Services - Current Year 1070 Activity		\$302,174	\$302,174	\$302,174	\$302,174	\$302,174	\$302,174	\$302,174	\$302,174	\$302,174	\$302,174	\$302,174	\$302,174	\$3,626,088
Ourlified Investment - Services - Closed 1070 Activity to Plant		(\$302,174)	(\$302,174)	(\$302,174)	(\$302,174)	(\$302,174)	(\$302,174)	(\$302,174)	(\$302,174)	(\$302,174)	(\$302,174)	(\$302,174)	(\$302,174)	(\$3,626,088)
Qualified Investment - M&R - Current Year 1070 Activity		\$129,503	\$129,503	\$129,503	\$129,503	\$129,503	\$129,503	\$129,503	\$129,503	\$129,503	\$129,503	\$129,503	\$129,503	\$1,554,038
Qualified Investment - M&R - Closed 1070 Activity to Plant		(\$129,503)	(\$129,503)	(\$129,503)	(\$129,503)	(\$129,503)	(\$129,503)	(\$129,503)	(\$129,503)	(\$129,503)	(\$129,503)	(\$129,503)	(\$129,503)	(\$1,554,038)
Qualified Investment - Mains - Current 1010 Activity		\$1,726,709	\$1,726,709	\$1,726,709	\$1,726,709	\$1,726,709	\$1,726,709	\$1,726,709	\$1,726,709	\$1,726,709	\$1,726,709	\$1,726,709	\$1,726,709	\$20,720,505
Qualified Investment - Services - Current 1010 Activity		\$302,174	\$302,174	\$302,174	\$302,174	\$302,174	\$302,174	\$302,174	\$302,174	\$302,174 \$129,503	\$302,174 \$129,503	\$302,174 \$129,503	\$302,174 \$129,503	\$3,626,088 \$1,554,038
Qualified Investment - M&R - Current 1010 Activity		\$129,503	\$129,503	\$129,503	\$129,503	\$129,503	\$129,503	\$129,503	\$129,503	\$129,503	\$129,503	\$129,503	\$129,503	\$1,554,038
Total Qualified Investment - Mains 1070	\$0	\$0	\$0	\$0	50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	50
Total Qualified Investment - Service 1070	\$0	\$0	\$0	\$0	\$0	\$0	02	50	\$0	\$0	\$0	\$9	\$9	\$0
Total Qualified Investment - M&R 1070	\$0	\$0	\$0	\$0	50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	50
Total Qualified Investment - Mains 1010	\$74,188,456	\$75,915,165	\$77,641,874	\$79,368,582	\$\$1,095,291	\$\$2,822,000	\$84,548,709	\$86,275,417	\$88,002,126	\$\$9,728,835	\$91,455,544	\$93,182,252	\$94,908,961	\$91,908,961
Total Qualified Investment - Service 1010	\$14,150,500	\$14,452,674	\$14,754,849	\$15,057,023	\$15,359,197	\$15,661,371	\$15,963,545	\$16,265,719	\$16,567,893 \$5,816,214	\$16,870,067 \$5,945,717	\$17,172,241 \$6.075,220	\$17,474,415 \$6,204,723	\$17,776,589 \$6,334,227	\$17,776,589 \$6,334,227
Total Qualified Investment - M&R 1010 Total Qualified Investment	\$4,780,189 \$93,119,145	\$4,909,692 \$95,277,531	\$5,039,195 \$97,435,917	\$5,168,698 \$99,594,303	\$5,298,201 \$101,752,689	\$5,427,705 \$103,911,075	\$5,557,208 \$106,069,461	\$5,686,711 \$108,227,847	\$110,386,233	\$112,544,619	\$114,703,005	\$116.861.350	\$119.019.776	\$119,019,776
Terra Qualizea inverimenti	393,119,143	375,277,551	377,433,917	379,374,303	3101,752,047	3103,711,013	3100,007,407	1100,221,047	3110,330,233	3111,544,517	3114,103,003	5110(1012)10	2112,012,110	
Less: Accumulated Depreciation	(\$6,430,859)	(\$6,569,485)	(\$6,711,314)	(\$6,856,344)	(\$7,004,575)	(\$7,156,008)	(\$7,310,643)	(\$7,468,479)	(\$7,629,517)	(\$7,793,757)	(\$7,961,198)	(\$8,131,840)	(\$8,305,685)	(\$8,305,685)
Net Book Value	\$86,688,287	\$88,708,046	\$90,724,604	\$92,737,960	\$94,748,114	\$96,755,067	\$98,758,818	\$100,759,368	\$102,756,716	\$104,750,862	\$106,741,807	\$108,729,550	\$110,714,092	\$110,714,092
Average Net Qualified Investment		\$\$7,698,166	\$89,716,325	\$91,731,282	\$93,743,037	\$95,751,590	\$97,756,942	\$99,759,093	\$101,758,042	\$103,753,789	\$105,746,334	\$107,735,678	\$109,721,821	
Depreciation Rates														
Approved Depreciation Rate-Mains		1,60%	1.60%	1.60%	1.60%	1.60%	1.60%	1.60%	1.60%	1.60%	1.60%	1,60%	1.60%	
Approved Depreciation Rate-Services		2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	
Approved Depreciation Rate - M&R City Gate		2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	
Return on Average Net Qualified Investment														
Equity - Cost of Capital, inclusive of Income Tax Gross-up		6.24%	6.24%	6.24%	6.24%	6.24%	6.24%	6.24%	6.24%	6.24%	6.24%	6.24%	6.24%	
Debt - Cost of Capital		1.34%	1.34%	1.34%	1.34%	1.34%	1,34%	1.34%	1.34%	1.34%	1.34%	1.34%	1.34%	
pro contrespon														
Equity Component - inclusive of Income Tax Gross-up		\$456,333	\$466,834	\$477,319	\$4\$7,787	\$498,238	\$508,673	\$519,091	\$529,493	\$539,877	\$550,245	\$560,597	\$570,932	\$6,165,419
Debt Component	-	\$98,076	\$100,333	\$102,586	\$104,836	\$107,082	\$109,325	\$111,564	\$113,799	\$116,031	\$118,260 \$668,505	\$120,484 \$6\$1,081	\$122,706	\$1,325,082 \$7,490,501
Return Requirement	•	\$554,409	\$\$67,167	\$579,505	\$592,623	\$605,321	\$617,998	\$630,655	3643,292	\$655,909	3008,203	\$0\$1,0\$1	5095,657	31,490,301
Investment Expenses														
Depreciation Expense - Mains		\$98,918	\$101,220	\$103,522	\$105,825	\$108,127	\$110,429	\$112,732	\$115,034	\$117,336	\$119,638	\$121,941	\$124,243	\$1,338,966
Depreciation Expense - Services		\$29,480	\$30,110	\$30,739	\$31,369	\$31,998	\$32,628	\$33,257	\$33,887	\$34,516	\$35,146	\$35,776	\$36,405	\$395,311
Depreciation Expense - M&R City Gate		\$10,229	\$10,498	\$10,768	\$11,038	\$11,308	\$11,578	\$11,847	\$12,117	\$12,387	\$12,657	512,927	\$13,196	\$140,549
Preperty Taxes		\$144,480	\$144,480	\$144,480	\$144,480	\$144,480	\$144,480	\$144,480	\$144,480 \$1.000	\$144,480 \$1.000	\$144,480 \$1,000	\$144,480 \$1.000	\$144,480 \$1,000	\$1,733,766 \$12,000
General Public Notice Expense & Customer Notice Expense		\$1,000 \$284,107	\$1,000 \$287,309	\$1,000	\$1,000 \$293,712	\$1,000 \$296,914	\$1,000	\$1,000	\$306,518	\$309,720	\$312,922	\$316,123	\$319,325	\$3,620,592
Total Expense	•	\$284,107	3181,309	3250,510	\$295,112	\$290,914	3300,113	116,6066	\$300,318	\$307,120	3312722	3310,123	3317,323	43,920,272
Total Revenue Requirements	-	\$838,516	\$854,476	\$870,415	\$\$86,335	\$902,234	\$918,113	\$933,972	\$949,810	\$965,629	\$981,427	\$997,205	\$1,012,962	\$11,111,093

Florida Public Utilities Company Os Utility Access and Replace Directive Projection of Quilified Minia & Savices Recourse Requirements Surcharge Calculation - January 1, 2027 brough December 31, 2027 Per Therm Rate

1. 1/1/27-12/31/27 Qualified Mains & Services Replacement Revenue Requirements			5	11,111,093
Mains	80%	\$8,888,874		
Services	14%	\$1,555,553		
M&R	6%	\$666,666		
Net		\$11,111,093		
2. TRUE-UP from Prior Period (Over) Under Recovery Estimated thru 12/2026			s	
3. 2027 Qualified Mains & Services Replacement Revenue Requirements			\$	11,111,093
Mains	80%	\$8,888,874		
Services	14%6	\$1,555,553		
M&R	6%5	\$666,666		

RATE SCHEDULE	2023 THERMS	SERVICES COS %	MAINS COS %	M&R COS %	SERVICES REV REQ	MAINS REV REQ	M&R REV REQ	GUARD REV REQ	DOLLARS FER THERM	TAX FACTOR	GUARD FACTORS PER THERM	TYPICAL ANNUAL THERMS	ANNUAL COST	AVERAGE MONTHLY COST
RES-I	1,520,128	27.37%a	1.20%	1.20%	\$425,756	\$106,940	\$8,023	\$540,717	\$0.35570	1.00503	\$0.35749	54	\$19.23	\$1.60
RES-2	5,975,749	36.49%	4.71%	4.71%	\$567,561	\$419,040	\$31,428	\$1,018,030	\$0.17036	1.00503	\$0.17122	159	\$27.22	\$2.27
RES-3	12,959,345	19.15%	10.05%	10.05%	\$297,820	\$\$93,002	\$66,975	\$1,257,797	\$0.09706	1.00503	\$0.09755	665	\$64.86	\$5.41
RES-SG	96,299	1.09%	0.09%	0.09%	\$16,917	\$8,317	\$624	\$25,857	\$0.26851	1.00503	\$0.26986	109	\$29.43	\$2.45
GS-1	691,996	3.10%	0.66%	0.60%	\$48,262	\$53,313	\$3,998	\$105,573	\$0.15256	1.00503	\$0.15333	322	\$49.40	\$4.12
GS-2	7,230,026	4,14%	6.03%	6.03%	\$64,461	\$535,587	\$40,169	\$640,218	\$0.08855	1.00503	\$0,08900	2,902	\$258.31	\$21.53
GS+3	11,772,608	3,40%	9.57%	9.57%	\$52,944	\$851,024	\$63,827	\$967,795	\$0.08221	1.00503	\$0.08262	7,312	\$604.14	\$50.34
GS-4	24,944,789	3.66%	19.88%	19.88%	\$56,902	\$1,767,251	\$132,544	\$1,956,696	0.07844	1.00503	0.07884	17,805	\$1,403.67	\$116.97
GS-5	12,549,603	0.55%	9.71%	9.71%	\$8,512	\$862,894	\$64,717	\$936,124	\$0.07459	1.00503	\$0.07497	110,084	\$8,252.91	\$687,74
G3-6	11,918,155	0.21%	9.23%	9.23%	\$3,305	\$820,443	\$61,533	\$\$85,281	\$0.07428	1.00503	\$0.07465	350,534	\$26,168.65	\$2,180.72
GS-7	9,260,735	0.08%	7.06%	7.06%	\$1,251	\$627,948	\$47,096	\$676,295	\$0.07303	1.00503	\$0.07340	771,728	\$56,641.40	\$4,720.12
GS-8 (A-D)	22,737,656	0.05%	17.26%	17.26%	\$757	\$1,534,272	\$115,070	\$1,650,099	\$0.07257	1.00503	\$0.07294	2,842,207	\$207,299.91	\$17,274.99
COM-INT	9,502,459	0.17%	3.58%	3.58%	\$2,669	\$318,042	\$23,853	\$344,563	\$0.03626	1.00503	\$0.03644	558,968	\$20,370.38	\$1,697.53
COM-NGV	1,469,075	0.01%	0.89%	0.89%	\$150	\$78,999	\$5,925	585,074	\$0.05791	1.00503	\$0.05820	340,759	\$19,832.61	\$1,652.72
COM-OL	99,723	0.02%	0.08%	0.05%	\$286	\$6,797	\$510	\$7,592	\$0.07614	1.00503	\$0.07652	3,439	\$263.13	\$21.93
COM-SG	62,693	0.51%	0.06%	0.06%	\$8,000	\$5,007	\$376	\$13,382	\$0.21346	1.00503	\$0.21453	207	\$44.39	\$3.70
TOTAL	132,791,038	100%	100%	100%	1,555,553	8,885,874	665,665	11,111,093						

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Florida Public Utilities Company Ga Utility Access and Replace Directive Calculation of the Projected Reverate Requirements January 1, 2028 through December 31, 2028

<u>ltem</u> Oudified Investment	Beginning <u>Balance</u>	Forecast Isn	Forecast Esh	Forecast Mat	Forecast Arx	Forecast <u>May</u>	Forecast Jan	Forecast Jol	Forecast Auz	Forecast SSD	Forecast Oct	Forecast <u>Nov</u>	Forecast Dis	Year End Intal Balance
Qualified Investment - Mains - Current Year 1070 Activity		\$1,614,156	\$1,614,156	\$1.614.156	\$1.614.156	\$1.614.156	\$1.614.156	\$1,614,156	\$1.614,156	\$1,614,156	\$1,614,156	\$1,614,156	\$1,614,156	\$19,369,874
Qualified Investment - Mains - Closed 1070 Activity to Plant		(\$1,614,156)	(\$1,614,156)	(\$1,614,156)	(\$1,614,156)	(\$1,614,156)	(\$1,614,156)	(\$1,614,156)	(\$1,614,156)	(\$1,614,156)	(\$1,614,156)	(\$1,614,156)	(\$1,614,156)	(\$19,369,874)
Qualified Investment - Services - Current Year 1070 Activity		\$282,477	\$282,477	\$282,477	\$282,477	\$282,477	\$282,477	\$282,477	\$282,477	\$282,477	\$282,477	\$282,477	\$282,477	\$3,389,728
Oualified Investment - Services - Closed 1070 Activity to Flant		(\$282,477)	(\$282,477)	(\$282,477)	(5282,477)	(\$282,477)	(\$282,477)	(\$282,477)	(\$282,477)	(\$282,477)	(\$282,477)	(\$282,477)	(\$282,477)	(\$3,3\$9,728)
Qualified Investment - M&R - Current Year 1070 Activity		\$121,062	\$121,052	\$121,052	\$121,062	\$121,052	\$121,062	\$121,062	\$121,062	\$121,052	\$121,052	\$121,062	\$121,052	\$1,452,741
Qualified Investment - M&R - Closed 1070 Activity to Plant		(\$121,062)	(\$121,062)	(\$121,062)	(\$121,062)	(\$121,062)	(\$121,062)	(\$121,062)	(\$121,062)	(\$121,062)	(\$121,062)	(\$121,062)	(\$121,062)	(\$1,452,741)
Qualified Investment - Mains - Current 1010 Activity		\$1,614,156	\$1,614,156	\$1,614,156	\$1,614,156	\$1,614,156	\$1,614,156	\$1,614,156	\$1,614,156	\$1,614,156	\$1,614,156	\$1,614,156	\$1,614,156	\$19,369,874
Qualified Investment - Services - Current 1010 Activity		\$282,477	\$282,477	\$282,477	\$282,477	\$282,477	\$282,477	\$282,477	\$282,477	\$282,477	\$282,477	\$282,477	\$282,477	\$3,389,728
Qualified Investment - M&R - Current 1010 Activity		\$121,062	\$121,062	\$121,062	\$121,062	\$121,052	\$121,052	\$121,062	\$121,062	\$121,062	\$121,062	\$121,062	\$121,062	\$1,452,741
Total Qualified Investment - Mains 1070	50	\$0	\$0	50	\$0	\$0	\$0	\$0	\$0	\$0	50	50	50	\$0
Total Qualified Investment - Service 1070	\$0	\$0	20	\$0	\$0	\$0	20	\$0	50	\$0	\$0	\$0	\$0	\$0
Total Qualified Investment - M&R 1970	\$0	\$0	50	50	\$0	\$0	\$0	\$0	\$0	\$0	50	\$0	\$0	\$0
Total Qualified Investment - Mains 1010	\$94,908,961	\$96,523,117	\$98,137,273	\$99,751,430	\$101,365,586	\$102,979,742	\$104,593,898	\$106,208,054	\$107,822,211	\$109,436,367	\$111,050,523	\$112,664,679	\$114,278,835	\$114,278,835
Tetal Qualified Investment - Service 1010	\$17,776,589	\$18,059,066	\$18,341,543	\$18,624,021	\$18,906,498	\$19,188,975	\$19,471,453	\$19,753,930	\$20,036,407	\$20,318,885	\$20,601,362	\$20,883,839	\$21,166,317	\$21,166,317
Total Qualified Investment - M&R 1010	\$6,334,227	\$6,455,288	\$6,576,350	\$6,697,412	\$6,818,474	\$6,939,535	\$7,050,597	\$7,181,659	\$7,302,720	\$7,423,782	\$7,544,844	\$7,665,906	\$7,786,967	\$7,786,967
Total Qualified Investment	\$119,019,776	\$121,037,472	\$123,055,167	\$125,072,862	\$127,090,557	\$129,108,253	\$131,125,948	\$133,143,643	\$135,161,338	\$137,179,034	\$139,196,729	\$141,214,424	\$143,232,119	\$143,232,119
Less: Accumulated Depreciation	(\$8,305,685)			(\$8,845,749)	(\$9,031,756)	(\$9,220,756)	(\$9,412,749)	(\$9,607,735)	(\$9,805,713)	(\$10,006,685)	(\$10,210,650)	(\$10,417,607)	(\$10,627,557)	(\$10,627,557)
Net Book Value	\$110,714,092	\$112,554,758	\$114,392,432	5116,227,114	\$118,058,802	\$119,887,497	\$121,713,199	\$123,535,909	\$125,355,625	\$127,172,349	\$128,926,079	\$130,796,817	\$132,604,562	\$132,604,562
Average Net Qualified Investment		\$111,634,425	\$113,473,595	\$115,309,773	\$117,142,958	\$118,973,149	\$120,500,348	\$122,624,554	\$124,445,767	\$126,263,987	\$128,079,214	\$129,891,448	\$131,700,690	
Depreciation Rates														
Approved Depreciation Rate-Mains		1.60%	1.60%	1.60%	1.60%	1.60%	1,60%	1.60%	1,60%	1.60%	1.60%	1.60%	1.60%	
Approved Depreciation Rate-Services		2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	
Approved Depreciation Rate - M&R City Gate		2.50%	2.50%	2.50%	2.50%	2.50%	2,50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	
Return on Average Net Qualified Investment														
Equity - Cost of Capital, inclusive of Income Tax Gross-up		6.24%	6.24%	6.24%	6.24%	6.24%	6.24%	6.24%	6.24%	6.24%	6.24%	6.24%	6.24%	
Debt - Cost of Capital		1.34%	1.34*6	1.34%	1.34%	1.34%	1.34%	1.34%	1.34%	1.34%	1.34%	1.34%	1.34%	
Equity Component - inclusive of Income Tax Gross-up		\$580,884	\$590,454	\$600,008	\$609,547	\$619,070	\$628,578	\$638,070	\$647,547	\$657,008	\$666,453	\$675,883	\$685,298	\$7,598,801
Debt Component		\$124,844	\$126,901	\$128,955	\$131,005	\$133,052	\$135,095	\$137,135	\$139,172	\$141,205	\$143,235	\$145,262	\$147,285	\$1,633,147
Return Requirement		\$705,728	\$717,355	\$728,963	\$740,552	\$752,122	\$763,673	\$775,206	\$786,719	\$798,213	\$\$09,689	\$821,145	\$832,583	\$9,231,948
Investment Expenses														
Depreciation Expense - Mains		\$126,545	\$128,697	\$130,850	\$133,002	\$135,154	\$137,306	\$139,459	\$141,611	\$143,763	\$145,915	\$148,067	\$150,220	\$1,660,589
Depreciation Expense - Services		\$37,035	\$37,623	\$38,212	\$38,800	\$39,389	\$39,977	\$40,566	541,154	\$41,743	\$42,331	\$42,920	\$43,508	\$483,255
Depreciation Expense - M&R City Gate		\$13,449	\$13,701	\$13,953	\$14,205	\$14,457	\$14,710	\$14,962	\$15,214	\$15,466	\$15,718	\$15,971	\$16,223	\$178,028
Property Taxes		\$184,523	\$184,523	\$184,523	\$184,523	\$184,523	\$184,523	\$184,523	\$184,523	\$184,523	\$184,523	\$184,523	\$184,523	\$2,214,282
General Public Notice Expense & Customer Notice Expense		\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$12,000
Total Expense		\$362,552	\$365,545	\$368,538	\$371,531	\$374,524	\$377,516	\$380,509	\$383,502	\$386,495	\$389,488	\$392,481	\$395,474	\$4,548,155
Total Revenue Requirements		\$1,068,280	\$1,082,900	\$1,097,501	\$1,112,083	\$1,126,646	\$1,141,190	\$1,155,715	\$1,170,221	\$1,184,708	\$1,199,177	\$1,213,626	\$1,228,057	\$13,780,103

RATE SCHEDULE	2023 THERMS	SERVICES COS %	MAINS COS %	M&R COS %	SERVICES REV REQ	MAINS REV REQ	M&R REV REQ	GUARD REV REQ	DOLLARS FER THERM	TAX FACTOR	GUARD FACTORS PER THERM	TYPICAL ANNUAL THERMS	ANNUAL COST	AVERAGE MONTHLY COST
RES-I	1,520,128	27.37%	1.20%	1.20%	\$528,027	\$132,628	\$9,947	\$670,603	\$0.44115	1.00503	\$0.44337	54	\$23.85	\$1.99
RES-2	5,975,749	36.49%	4.71%	4.71%	\$703,896	\$519,699	\$38,977	\$1,262,572	\$0.21128	1.00503	\$0.21235	159	\$33.76	\$2.81
RES-3	12,959,345	19,15%	10.05%	10.05°6	\$369,360	\$1,107,511	\$\$3,063	\$1,559,933	\$0,12037	1.00503	\$0,12098	665	\$\$0.44	\$6.70
RES-SG	96,299	1.09%	0.09%	0.09%	\$20,981	\$10,314	\$774	\$32,069	\$0.33301	1.00503	\$0.33469	109	\$36.50	\$3.04
GS-I	691,996	3.10%	0.60%	0.60%	\$59,855	\$66,119	\$4,959	\$130,933	\$0.18921	1.00503	\$0.19016	322	\$61.26	\$5.11
GS-2	7,230,026	4.14%	6.03%	6.03%	\$79,946	\$664,241	\$49,818	\$794,005	\$0.10982	1.00503	\$0.11037	2,902	\$320.35	\$26.70
GS-3	11,772,608	3,40%6	9.57%	9.57%	\$65,662	\$1,055,450	\$79,159	\$1,200,270	\$0.10195	1.00503	\$0.10247	7,312	\$749.26	\$62.44
GS-4	24,944,789	3.66%	19.85%	19.88%	\$70,570	\$2,191,764	\$164,382	\$2,426,717	0.09728	1.00503	0.09777	17,805	\$1,740.84	\$145.07
GS-5	12,549,603	0.55%	9.71%	9.71%	\$10,557	\$1,070,171	\$10,263	\$1,160,991	\$0.69251	1.00503	\$0,69298	110,084	\$10,235.36	\$852.95
GS-6	11,918,155	0.21%	9.23%	9.23%	\$4,099	\$1,017,522	\$76,314	\$1,097,935	\$0.09212	1.00503	\$0.09259	350,534	\$32,454.65	\$2,704.55
GS-7	9,260,735	0.02%	7.06%	7.06%	\$1,552	\$778,788	\$58,409	\$838,749	\$0.09057	1.00503	\$0.09103	771,728	\$70,247.30	\$5,853.94
GS-8 (A-D)	22,737,656	0.05%	17.26%	17.26%	\$939	\$1,902,821	\$142,712	\$2,046,472	\$0.09000	1.00503	\$0.09046	2,842,207	\$257,095.68	\$21,424.64
COM-INT	9,502,459	0.17%	3.58%	3.58%	\$3,310	\$394,439	\$29,583	\$427,331	\$0,04497	1.00503	\$0.04520	558,968	\$25,263.57	\$2,105.30
COM-NGV	1,469,075	0.01%	0.89%	0.89%	\$187	\$97,975	\$7,348	\$105,510	\$0.07182	1.00503	\$0.07218	340,759	\$24,596.63	\$2,049.72
COM-OL	99,723	0.02%	0.08%	0.08%	\$355	\$8,429	\$632	\$9,416	\$0.09442	1.00503	\$0.09490	3,439	\$326.33	\$27.19
COM-SG	62,693	0.51%	0.06%	0.06%	\$9,922	\$6,210	\$466	\$16,597	\$0.26473	1.00503	\$0.26607	207	\$55.05	\$4.59
TOTAL	132,791,038	100%	100%	100%	1,929,214	11,024,082	\$26,806	13,780,103						

. 1/1/28-12/31/28 Qualified Mains & Services Replacement Revenue Requirements			5	13,780,103
Mains	80%	\$11,024,082		
Services	14%6	\$1,929,214		
M&R	6%	\$\$26,806		
Net		\$13,780,103		
2. TRUE-UP from Prior Period (Over) Under Recovery Estimated thru 12/2027			s	
3. 2028 Qualified Mains & Services Replacement Revenue Requirements			\$	13,780,103
Mains	80%	\$11,024,082		
Services	14%	\$1,929,214		
M&R	6%	\$826,806		
Net	-	\$13,780,103	-	

Florida Public Utilities Company Gas Utility Access and Replace Directive Projection of Qualified Mains & Sarrices Recome Requirements Surcharge Calculation - January 1, 2028 Weagh December 31, 2028 Per Therm Rate

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Florida Public Utilities Company Gau Utiliy Access and Replace Directive Calculation of the Projected Revenue Requirements January 1, 2029 through December 31, 2029

<u>liem</u> Oxulified Investment	Beginning Balance	Forecast <u>Im</u>	Forecast Ech	Forecast Mat	Forecast API	Forecast <u>May</u>	Forecast Jun	Forecast Jol	Forecast Aug	Forecast Sea	Forecast <u>Oci</u>	Forecast <u>Nov</u>	Forecast Dec	Year End <u>Total Balance</u>
Qualified Investment - Mains - Current Year 1070 Activity		\$1,614,156	\$1,614,156	\$1,614,156	\$1,614,156	\$1,614,156	\$1,614,156	\$1,614,156	\$1,614,156	\$1,614,156	\$1,614,156	\$1,614,156	\$1,614,156	\$19,369,874
Qualified Investment - Mains - Closed 1070 Activity to Plant		(\$1,614,156)	(\$1,614,156)	(\$1,614,156)	(\$1,614,156)	(\$1,614,156)	(\$1,614,156)	(\$1,614,156)	(\$1,614,156)	(\$1,614,156)	(\$1,614,156)	(\$1,614,156)	(\$1,614,156)	(\$19,369,874)
Qualified Investment - Services - Current Year 1070 Activity		\$282,477	\$282,477	\$282,477	\$282,477	\$282,477	\$282,477	\$282,477	\$282,477	\$282,477	\$282,477	\$282,477	\$282,477	\$3,389,728
Qualified Investment - Services - Closed 1070 Activity to Plant		(\$282,477) \$121.062	(\$282,477) \$121,062	(\$282,477) \$121,052	(\$282,477) \$121,062	(\$282,477) \$121,062	(\$282,477) \$121,062	(\$282,477) \$121,062	(\$282,477) \$121.062	(\$282,477) \$121,062	(\$282,477) \$121,062	(\$282,477) \$121,062	(\$282,477) \$121,062	(\$3,389,728) \$1,452,741
Qualified Investment - M&R - Current Year 1070 Activity Qualified Investment - M&R - Closed 1070 Activity to Plant		(\$121,052)	(\$121,062)	(\$121,062)	(\$121,062)	(\$121,062)	(\$121,062)	(\$121,062)	(\$121,062)	(\$121,062)	(\$121,062)	(\$121,062)	(\$121,062)	(\$1,452,741)
Qualified Investment - Mains - Current 1010 Activity		\$1,614,156	\$1,614,156	\$1,614,156	\$1.614.156	\$1,614,156	\$1,614,156	\$1,614,156	\$1,614,156	\$1.614.156	\$1.614.156	\$1.614.156	\$1,614,156	\$19,369,874
Qualified Investment - Services - Current 1010 Activity		\$282,477	\$282,477	\$282,477	\$282,477	\$282,477	\$282,477	\$282,477	\$282,477	\$282,477	\$282,477	\$282,477	\$282,477	\$3,389,728
Qualified Investment - M&R - Current 1010 Activity		\$121,062	\$121,062	\$121,062	\$121,062	\$121,062	\$121,062	\$121,062	\$121,062	\$121,062	\$121,062	\$121,062	\$121,052	\$1,452,741
Total Qualified Investment - Mains 1070	50	\$0	\$0	\$0	\$0	50	\$0	\$0	50	\$0	\$0	\$0	\$0	\$0
Total Qualified Investment - Service 1070	\$0	\$0	50 50	\$0 50	\$0	\$0	\$0	50	\$0	\$0	02 02	50 50	62 02	50 50
Total Qualified Investment - M&R 1070 Total Qualified Investment - Mains 1010	\$0 \$114.278.835	\$0 \$115,892,992	50 5117,507,148	50 5119,121,304	\$0 \$120,735,460	\$0 \$122,349,616	\$0 \$123,963,773	\$0 \$125,577,929	50 \$127,192,085	\$0 \$128,806,241	\$130,420,397	\$132,034,554	5133.648.710	\$133.648,710
Total Qualified Investment - Service 1010	\$21,166,317	\$21,448,794	\$21,731,271	\$22,013,749	\$22,296,226	\$22,578,703	\$22,861,181	\$23,143,658	\$23,426,136	\$23,708,613	\$23,991,090	\$24,273,568	\$24,556,045	\$24,556,045
Total Qualified Investment - M&R 1010	\$7,786,967	\$7,908,029	\$8,029,091	\$8,150,152	\$8,271,214	\$8,392,276	\$8,513,338	\$8,634,399	\$8,755,461	\$8,876,523	\$8,997,584	\$9,118,646	\$9,239,708	\$9,239,708
Total Qualified Investment	\$143,232,119			\$149,285,205	\$151,302,900	\$153,320,596	\$155,338,291	\$157,355,986	\$159,373,681	\$161,391,377	\$163,409,072	\$165,426,767	\$167,444,462	\$167,444,462
Less: Accumulated Depreciation	(\$10,627,557)	(\$10,840,501) \$134,409,314				(\$11,722,203)	(\$11,950,111)	(\$12,181,012)	(\$12,414,906)	(\$12,651,792)	(\$12,891,672) \$150,517,400	(\$13,134,544) \$152,292,223	(\$13,310,410) \$154,054,053	(\$13,380,410) \$154,064,053
Net Book Value	\$132,604,562	\$134,409,314	\$136,211,073	\$138,009,839	\$139,805,612	\$141,598,392	\$143,388,180	\$145,174,974	\$146,958,776	\$148,739,584	\$150,517,400	\$152,192,123	\$154,064,053	3134,054,033
Average Net Qualified Investment		\$133,506,938	\$135,310,193	\$137,110,456	\$138,907,726	\$140,702,002	\$142,493,286	\$144,281,577	\$146,066,875	\$147,849,180	\$149,628,492	\$151,404,811	\$153,178,138	
Depreciation Rates														
Approved Depreciation Rate-Mains		1.60%	1.60%	1.60%	1.60%	1.60%	1.60%	1.60%	1.60%	1.60%	1,60%	1.60%	1.60%	
Approved Depreciation Rate-Services		2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	
Approved Depreciation Rate - M&R City Gate		2.50%	2.50%	2.50%	2.50%	2_50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	
Return on Average Net Qualified Investment														
Equity - Cost of Capital, inclusive of Income Tax Gross-up		6.24%	6.24%		6.24%	6.24%	6.24%	6.24%	6.24%	6.24%	6.24%	6.24%	6.24%	
Debt - Cost of Capital		1.34%	1.34%	1.34%	1.34%	1.34%	1.34%	1.34%	1.34%	1.34%	1.34%	1.34%	1.34%	
Equity Component - inclusive of Income Tax Gross-up		\$694,696	\$704.079	\$713.447	\$722,799	\$732,135	\$741,456	\$750,762	\$760.051	\$769.325	\$778,584	\$787,827	\$797,054	\$8,952,217
Debt Component		\$149,305	\$151,322	\$153,335	\$155,345	\$157,352	\$159,355	\$161,355	\$163,351	\$165,345	\$167,335	\$169,321	\$171,304	\$1,924,025
Return Requirement		\$\$44,002	\$855,401	\$866,782	\$878,144	\$889,487	\$900,811	\$912,116	\$923,403	\$934,670	\$945,918	\$957,148	\$968,359	\$10,876,242
Investment Expenses														
Depreciation Expense - Mains		\$152,372	\$154,524	\$156,676	\$158,828	\$160,981	\$163,133	\$165,285	\$167,437	\$169,589	\$171,742	\$173,894	\$176,046	\$1,970,507
Depreciation Expense - Services		\$44,096	\$44,685	\$45,273	\$45,862	\$46,450	\$47,039	\$47,627	\$48,216	\$48,804	\$49,393	\$49,981	\$50,570	\$567,999
Depreciation Expense - M&R City Gate		\$16,475	\$16,727	\$16,979	\$17,232	\$17,484	\$17,736	\$17,988	\$18,241	\$18,493	\$18,745	\$18,997	\$19,249	\$214,347
Property Taxes		\$221,008	\$221,008	\$221,008	\$221,008	\$221,008	\$221,008	\$221,008	\$221,008	\$221,008	\$221,008	\$221,008	\$221,008	\$2,652,091
General Public Notice Expense & Customer Notice Expense Total Expense		\$1,000 \$434,951	\$1,000 \$437,944	\$1,000 \$440,937	\$1,000 \$443,930	\$1,000	\$1,000 \$449,916	\$1,000	\$1,000	\$1,000	\$1,000 \$461,887	\$1,000 \$464,880	\$1,000 \$467,873	\$12,000
10tal Expense		\$434,951	3437,944	3+10,937	3+43,930	3+40,923	3443/318	3432,908	\$455,901	3435,694	3401,887	3404,830	3791(873	27410,244
Total Revenue Requirements		\$1,278,952	\$1,293,345	\$1,307,719	\$1,322,074	\$1,336,410	\$1,350,727	\$1,365,025	\$1,379,304	\$1,393,564	\$1,407,806	\$1,422,028	\$1,436,232	\$16,293,185

DOLLARS FER GUARD FACTORS TYPICAL ANNUAL AVERAGE ANNUAL MONTHLY RATE SCHEDULE 2023 THERMS SERVICES COS % MAINS COS % M&R COS % SERVICES MAINS 100 GUARD TAX THERM FACTOR FERTHERM THERMS REV REQ REV REQ REVREQ REVREQ COST COST \$28.20 \$2.35 RES-1 1,520,128 27.37% 1.20% 1.20% \$624,324 \$156,816 \$11,761 \$ 792,901 \$0.52160 1.00503 \$0.52422 54 RES-2 5,975,749 36.49% 4.71% 4.71% \$\$32,265 \$614,476 \$46,086 \$1,492,827 \$0.24981 1.00503 \$0.25107 159 \$39.92 \$3.33 \$95.11 \$7.93 RES-3 12,959,345 19.15% 10.05% 10.05% \$436,720 \$1,309,488 \$98,212 \$1,844,419 \$0.14232 1.00503 \$0.14304 665 RES-SO 96,299 1.09% 0.09% 0.09% \$24,807 \$12,195 \$915 \$37,917 \$0.39374 1.00503 \$0.39572 109 \$43.16 \$3.60 691,996 \$72.43 \$6,04 GS-1 3.10% 0.60% 0.60% \$70,771 \$78,177 \$5,863 \$154,811 \$0.22372 1.00503 \$0.22484 322 4.34% 6.03% 6.03°è \$785,379 \$58,903 \$938,808 \$0.12985 1.00503 \$0.13050 2,902 \$378.78 \$31.56 GS-2 7,230,026 \$94,526 GS-3 11,772,608 3,40% 9 57% 9.57% \$77,636 \$1,247,933 \$93,595 \$1,419,164 \$0.12055 1.00503 \$0.12115 7,312 \$885.90 \$73.83 0.11560 \$171.53 GS-4 24,944,789 3.66°è 19.88% 19.88% \$83,440 \$2,591,477 \$194,361 \$2,869,278 0.11503 1.00503 17,805 \$2,058.32 GS-5 12,549,603 0.55% 9,71% 9.71% \$12,482 \$1,265,339 \$94,900 \$1,372,721 \$0.10938 1.00503 \$0.10993 110,084 \$12,101.98 \$1,008.50 GS-6 11.918.155 0.21% 9.23% 9.23% \$4,846 \$1,203,088 \$1,298,166 \$0.10892 1.00503 \$0.10947 350,534 \$3,197.78 \$90,232 \$38,373.42 GS-7 9,260,735 0.05% 7.06% 7.06% \$1,835 \$920,816 \$69,061 \$991,712 \$0.10709 1.00503 \$0.10763 771,728 \$83,058.32 \$6,921.53 GS-8 (A-D) 22,737,656 0.05% 17.26% 17.26% \$1,110 \$2,249,840 \$168,738 \$2,419,688 \$0.10642 1.00503 \$0.10695 2,842,207 \$303,982.32 \$25,331.86 \$0.05344 558,968 \$2,489.24 9,502,459 0.17% 3.55% 3.58% \$34,978 \$505,264 \$0.05317 1.00503 \$29,870.90 COM-INT \$3,913 \$466,373 COM-NGV 1,469,075 0.01% 0.89% 0.89% \$221 \$115,843 \$8,688 \$124,752 \$0.08492 1.00503 \$0.08535 340.759 \$29.082.32 \$2,423.53 99,723 0.02% 0.05% 0.08% \$420 \$9,966 \$747 \$11,134 \$0,11164 1.00503 \$0.11221 3,439 \$385.85 \$32.15 COM-OL COM-SG 62,693 0.51% 0.06% 0.06% \$11,731 \$7,342 \$551 \$19,624 \$0.31301 1.00503 \$0.31459 207 \$65.09 \$5.42 132,791,038 100% 2,281,046 13,034,548 977,591 16,293,185 100% 100% TOTAL.

1/1/29-12/31/29 Qualified Mains & Services Replacement Revenue Requiremen			s	16,293,185
Mains	80%	\$13,034,548		
Services	14%	\$2,281,046		
M&R	6%	\$977,591		
Net		\$16,293,185		
TRUE-UP from Prior Period (Over) Under Recovery Estimated thru 12/2028			s	·
2029 Qualified Mains & Services Replacement Revenue Requirements			5	16,293,185
Mains	80%	\$13,034,548		
Services	14°è	\$2,281,046		
M&R	6%	\$977,591		
Net		\$16,293,185	-	

Florida Public Utilities Company Gas Utility Access and Replace Directive Projection of Qualified Matins & Services Revenue Requirements Surcharge Calculation - January 1, 2029 through December 31, 2029 Per Therm Rate

1.

2. 3. Exhibit ROG 27 Page 15 of 21

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Florida Public Utilities Company Osa Utility Access and Replace Directive Calculation of the Projected Revenae Requirements January 1, 2030 through December 31, 2030

<u>ltem</u> Oxulified Investment	Beginning Balance	Forecast Jan	Forecast Ech	Forecast Mag	Forecast Apt	Forecast May	Forecast Lun	Forecast Isl	Forecast Ass	Forecast SSB	Forecast Oci	Forecast <u>Nov</u>	Forecast Dec	Year End Total Balance
Qualified Investment - Mains - Current Year 1070 Activity		\$1,614,156	\$1,614,156	\$1,614,155	\$1,614,156	\$1,614,156	\$1,614,156	\$1,614,156	\$1,614,156	\$1,614,156	\$1,614,156	\$1,614,156	\$1,614,156	\$19,369,874
Qualified Investment - Mains - Closed 1070 Activity to Plant		(\$1,614,156)	(\$1,614,156)	(\$1,614,156)	(\$1,614,156)	(\$1,614,156)	(\$1,614,156)	(\$1,614,156)	(\$1,614,156)	(\$1,614,156)	(\$1,614,156)	(\$1,614,156)	(\$1,614,156)	(\$19,369,874)
Qualified Investment - Services - Current Year 1070 Activity		\$282,477	\$282,477	\$282,477	\$282,477	\$282,477	\$282,477	\$282,477	\$282,477	\$282,477	\$282,477	\$282,477	\$282,477	\$3,389,728
Qualified Investment - Services - Closed 1070 Activity to Plant		(\$282,477)	(\$282,477)	(\$282,477)	(\$282,477) \$121.062	(\$282,477)	(\$282,477)	(\$282,477)	(\$282,477)	(\$282,477) \$121,062	(\$282,477) \$121,062	(\$282,477) \$121,062	(\$282,477) \$121,062	(\$3,389,728) \$1,452,741
Qualified Investment - M&R - Current Year 1070 Activity Qualified Investment - M&R - Closed 1070 Activity to Plant		\$121,062 (\$121,062)	\$121,062 (\$121,062)	\$121,062 (\$121,062)	(\$121,062)	\$121,062 (\$121,062)	\$121,062 (\$121,062)	\$121,062 (\$121,062)	\$121,062 (\$121,062)	(\$121,062)	(\$121,062)	(\$121,062)	(\$121,062)	(\$1,452,741)
Qualified Investment - Mains - Current 1010 Activity		\$1,614,156	\$1,614,156	\$1,614,156	\$1,614,156	\$1,614,156	\$1,614,156	\$1,614,156	\$1,614,156	\$1,614,156	\$1,614,156	\$1,614,156	\$1,614,156	\$19,369,874
Qualified Investment - Services - Current 1010 Activity		5282.477	\$282,477	\$282,477	\$282,477	\$282,477	\$282,477	\$282,477	\$282,477	\$282,477	\$282,477	\$282,477	\$282,477	\$3,389,728
Qualified Invertment - M&R - Current 1010 Activity		\$121,062	\$121,062	\$121,062	\$121,062	\$121,062	\$121,062	\$121,062	\$121,062	\$121,062	\$121,052	\$121,062	\$121,062	\$1,452,741
Total Qualified Investment - Mains 1070	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	50	50	50	\$0	\$0
Total Quilified Investment - Service 1070	\$0	\$0	\$0	20	\$0	\$0	50	\$0	\$0	\$0	\$0	50	\$0	50
Total Quilified Investment - M&R 1070	\$0 \$133.648.710	\$0 \$135,262,866	\$0 \$136,877,022	\$0 \$138,491,178	50 \$140,105,335	50 \$141,719,491	\$0 \$143,333,647	\$0 \$144,947,803	50 \$146,561,959	\$0 \$148,176,116	\$0 \$149,790,272	50 \$151,404,428	\$0 \$153,018,584	50 5153.018.584
Total Qualified Investment - Mains 1010 Total Qualified Investment - Service 1010	\$24,556,045	\$24,838,522	\$25,121,000	\$25,403,477	\$25,685,954	\$25,968,432	\$26,250,909	\$26,533,386	\$26,815,864	\$27,098,341	\$27,380,818	\$27,663,296	\$27,945,773	\$27,945,773
Total Qualified Investment - M&R 1010	\$9,239,708	\$9,360,770	\$9,481,831	\$9.602.893	\$9,723,955	\$9,845,016	\$9,966,078	\$10.087.140	\$10,203,202	\$10,329,263	\$10,450,325	\$10.571.387	\$10,692,448	\$10.692.448
Total Qualified Investment	\$167,444,462	\$169,462,158		\$173,497,548		\$177,532,939	\$179,550,634	\$181,568,329	\$183,586,024	\$185,603,720	\$187,621,415	\$189,639,110	\$191,656,805	\$191,656,805
						······								
Less: Accumulated Depreciation	(\$13,380,410)		(\$13,881,119)			(\$14,654,631)	(\$14,918,453)	(\$15,185,269)	(\$15,455,078)	(\$15,727,880)	(\$16,003,674)	(\$16,282,462)	(\$16,564,242)	(\$16,564,242)
Net Beck Value	\$154,064,053	\$155,832,889	\$157,598,734	\$159,361,585	\$161,121,443	\$162,878,308	\$164,632,180	\$166,3\$3,060	\$168,130,946	\$169,875,840	\$171,617,741	\$173,356,649	\$175,092,563	\$175,092,563
Average Net Qualified Investment		\$154,948,471	\$156,715,812	\$158,480,159	\$160,241,514	\$161,999,875	\$163,755,244	\$165,507,620	\$167,257,003	\$169,003,393	\$170,746,750	\$172,487,195	\$174,224,606	
Depreciation Rates														
Approved Depreciation Rate-Maina		1.60%	1.60%	1.60%	1.60%	1.60%	1.60%	1.60%	1,60%	1.60%	1.60%	1,60%	1.60%	
Approved Depreciation Rate-Services		2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	
Approved Depreciation Rate - M&R City Gate		2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2_50%	2.50%	2.50%	2.50%	2.50%	2.50%	
Return on Average Net Qualified Investment														
Equity - Cost of Capital, inclusive of income Tax Gross-up		6.24%	6.24%	6.24%	6.24%	6.24%	6.24%	6.24%	6.24%	6.24%	6.24%	6.24%	6.24%	
Debt - Cost of Capital		1.34%	1.34%	1.34%	1.34%	1.34%	1.34%	1.34%	1.34%	1.34%	1.34%	1.34%	1.34%	
Equity Component - inclusive of Income Tax Gross-up		\$\$06.266	\$\$15,462	\$824.643	\$833.808	\$842,958	\$\$52.092	\$861.210	\$\$70,313	\$879,400	\$888,472	\$897,528	\$906,569	\$10,278,721
Debt Component		\$173,284	\$175,261	\$177,234	\$179,203	\$181,170	\$183,133	\$185,093	\$187,049	\$189,002	\$190,952	\$192,898	\$194,841	\$2,209,120
Return Requirement		\$979,550	\$990,723	\$1,001,877	\$1,013,012	\$1,024,128	\$1,035,225	\$1,046,303	\$1,057,362	\$1,068,402	\$1,079,424	\$1,090,426	\$1,101,410	\$12,487,841
Investment Expenses														
Depreciation Expense - Mains		\$178,198	\$180,350	\$182,503	\$184,655	\$186,807	\$188,959	\$191,112	\$193,264	\$195,416	\$197,568	\$199,720	\$201,873	\$2,280,425
Depreciation Expense - Services		\$51,158	\$51,747	\$52,335	\$52,924	\$53,512	\$54,101	\$54,689	\$55,278	\$55,866	\$56,455	\$57,043	\$57,632	\$652,742
Depreciation Expense - M&R City Gate		\$19,502	\$19,754	\$20,006	\$20,258	\$20,510	\$20,763	\$21,015	\$21,267	\$21,519	\$21,772	\$22,024	\$22,276	\$250,665
Property Taxes		\$256,773	\$256,773	\$256,773	\$256,773	\$256,773	\$256,773	\$256,773	\$256,773	\$256,773	\$256,773	\$256,773	\$256,773	\$3,081,281
General Public Notice Expense & Customer Notice Expense		\$1,000	\$1,000	\$1,000	\$1,600	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$12,000
Total Expense		\$506,632	\$509,625	\$512,618	\$515,610	\$518,603	\$521,596	\$524,589	\$527,582	\$530,575	\$533,568	\$536,561	\$539,554	\$6,277,113
Total Revenue Requirements		\$1,486,182	\$1,500,348	\$1,514,494	\$1.528.622	\$1,542,731	\$1,556,821	\$1,570,892	\$1.584.944	\$1,598,977	\$1.612.992	\$1.626.987	\$1,640,963	\$18,764,954

RATE SCHEDULE	2023 THERMS	SERVICES COS %	MAINS COS %	M&R COS %	SERVICES REV REQ	MAINS REV REQ	M&R REV REQ	GUARD REV REQ	DOLLARS PER THERM	TAX FACTOR	GUARD FACTORS PER THERM	TYFICAL ANNUAL THERMS	ANNUAL COST	AVERAGE MONTHLY COST
RES-1	1,520,128	27.37%	1.20%	1.20%	\$719,037	\$180,606	\$13,545	\$913,188	\$0.60073	1.00503	\$0.60375	54	\$32.48	\$2.71
RES-2	5,975,749	36.49%	4.71%	4,71%	\$958,525	\$707,696	\$53,077	\$1,719,298	\$0.28771	1.00503	\$0.28916	159	\$45.97	\$3.83
RES-3	12,959,345	19.15%	10.05%	10.05%	\$502,973	\$1,508,144	\$113,111	\$2,124,228	\$0.16391	1.00503	\$0.16474	665	\$109.54	\$9.13
RES-SG	96,299	1.09%	0.09%	0.09%	\$28,570	\$14,045	\$1,053	\$43,669	\$0.45348	1.00503	\$0.45576	109	\$49.70	\$4.14
OS-1	691,996	3.10%	0.60%	0.60%	\$81,507	\$90,037	\$6,753	\$178,297	\$0.25766	1.00503	\$0.25895	322	\$83.42	\$6.95
GS-2	7,230,026	4.14%	6.03%	6.03%	\$108,866	\$904,526	\$67,839	\$1,081,231	\$0.14955	1.00503	\$0.15030	2,902	\$436.24	\$36.35
GS-3	11,772,608	3.40%	9.57%	9.57%	\$89,414	\$1,437,251	\$107,794	\$1,634,459	\$0.13884	1.00503	\$0.13953	7,312	\$1,020.30	\$\$5.02
GS-4	24,944,789	3.66°è	19.88%	19.86%	\$96,099	\$2,984,619	\$223,846	\$3,304,564	0.13248	1.00503	0.13314	17,805	\$2,370.58	\$197.55
GS-5	12,549,603	0.55°è	9.71%	9.71%	\$14,376	\$1,457,298	\$109,297	\$1,580,971	\$0.12598	1.00503	\$0,12661	110,084	\$13,937.92	\$1,161.49
GS-6	11,918,155	0.21%	9.23%	9.23%	\$5,582	\$1,385,604	\$103,920	\$1,495,106	\$0.12545	1.00503	\$0.12608	350,534	\$44,194.88	\$3,682.91
G5+7	9,260,735	0.05°è	7.06%	7.06%	\$2,113	\$1,060,509	\$79,538	\$1,142,160	\$0,12333	1.00503	\$0.12395	771,728	\$95,658.74	\$7,971.56
GS-8 (A-D)	22,737,656	0.05%	17.26%	17.26%	\$1,278	\$2,591,153	\$194,336	\$2,786,768	\$0.12256	1.00503	\$0.12318	2,842,207	\$350,098.16	\$29,174.85
COM-INT	9,502,459	0.17%	3.58%	3.58%	\$4,507	\$537,124	\$40,284	\$581,915	\$0.06124	1.00503	\$0.06155	558,968	\$34,402.49	\$2,866.87
COM-NGV	1,469,075	0.01%	0.89%	0.89%	\$254	\$133,417	\$10,006	\$143,677	\$0.09780	1.00503	\$0.09829	340,759	\$33,494.28	\$2,791.19
COM-01.	99,723	0.02%	0.08%	0.08%	\$483	\$11,478	\$861	\$12,823	\$0.12858	1.00503	\$0.12923	3,439	\$444.38	\$37.03
COM-SG	62,693	0.51%	0.06%	0.06%	\$13,511	\$8,456	\$634	\$22,601	\$0.36050	1.00503	\$0.36231	207	\$74.97	\$6.25
TOTAL	132,791,038	100%	100%	100%	2,627,094	15,011,963	1,125,897	18,764,954						

. 1/1/30-12/31/30 Qualified Mains & Services Replacement Revenue Requirements			\$ 18,764,954
Mains	\$0%	\$15,011,963	
Services	14%	\$2,627,094	
MAR	6°6	\$1,125,897	
Net	-	\$18,764,954	
. TRUE-UP from Prior Period (Over) Under Recovery Estimated thru 12/2029			\$ •
2030 Qualified Mains & Services Replacement Revenue Requirements			\$ 18,764,954
Mains	80%	\$15,011,963	
Services	14%6	\$2,627,094	
M&R	6%	\$1,125,897	
Net		\$18,764,954	

Florida Public Utilities Company Gai Utility Access and Replace Directive Projection of Quilifed Minin & Sortices Recome Requirements Surcharge Calculation - January 1, 2000 Breedb Descember 31, 2030 Per Therm Rate Exhibit ROG 27 Page 17 of 21

Exhibit ROG 27 Page 18 of 21

Florida Public Utilities Company Ga Utiliy Access and Replace Directive Calculation of the Projected Revenue Requirements January 1, 2031 through December 31, 2031

<u>lkun</u> Qualified Investment	Beginning Balanie	Forecast Im	Forecast Ech	Forecast Mat	Forecast Atr	Forecast <u>Max</u>	Forecast Luis	Forecast Ist	Forecast Aun	Forecast Sep	Forecast <u>Oct</u>	Forecast <u>Nov</u>	Forecast Dec	Year End Intal Malance
Qualified Investment - Mains - Current Year 1070 Activity		\$1,614,156	\$1,614,156	\$1,614,156	\$1,614,156	\$1,614,156	\$1,614,156	\$1,614,156	\$1,614,156	\$1,614,156	\$1,614,156	\$1,614,156	\$1,614,156	\$19,369,874
Qualified Investment - Mains - Closed 1070 Activity to Plant		(\$1,614,156)	(\$1,614,156)	(\$1,614,156)	(\$1,614,156)	(\$1,614,156)	(\$1,614,156)	(\$1,614,156)	(\$1,614,156)	(\$1,614,156)	(\$1,614,156)	(\$1,614,156)	(\$1,614,156)	(\$19,369,874)
Qualified Investment - Services - Current Year 1070 Activity		\$282,477	\$282,477	\$282,477	\$282,477	\$282,477	\$282,477	\$282,477	\$282,477	\$282,477	\$282,477	\$282,477	\$282,477	\$3,389,728
Qualified Investment - Services - Closed 1070 Activity to Plant		(\$282,477)	(\$282,477)	(\$282,477)	(\$282,477)	(\$282,477)	(\$282,477)	(\$282,477)	(\$282,477)	(\$282,477)	(\$282,477)	(\$282,477)	(\$282,477)	(\$3,389,728)
Qualified Investment - M&R - Current Year 1070 Activity Qualified Investment - M&R - Closed 1070 Activity to Plant		\$121,062	\$121,062 (\$121,062)	\$121,062 (\$121,062)	\$121,062 (\$121,062)	\$121,062	\$121,062	\$121,062	\$121,062	\$121,062	\$121,062	\$121,062	\$121,062	\$1,452,741
Qualified Investment - Mains - Current 1010 Activity		(\$121,062) \$1,614,156	\$1,614,156	\$1,614,156	\$1,614,156	(\$121,062) \$1,614,156	(\$1,452,741) \$19,369,874							
Qualified Investment - Services - Current 1010 Activity		\$282,477	\$282,477	\$282,477	\$282,477	\$282.477	\$282,477	\$282,477	\$282,477	\$282,477	\$282,477	\$282,477	\$282,477	\$3,389,728
Qualified Investment - M&R - Current 1010 Activity		\$121,062	\$121,062	\$121,062	\$121,062	\$121,062	\$121,062	\$121,062	\$121,062	\$121,062	\$121,062	\$121,062	\$121,062	\$1,452,741
Total Qualified Investment - Mains 1070	\$0	\$0	\$ 0	\$0	\$0	\$ 0	50	\$0	\$0	\$0	50	\$0	\$0	\$0
Total Qualified Investment - Service 1070	\$0	\$0	20	50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	20	\$0	50
Total Qualified Investment - M&R 1070	\$0	50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$ 0	\$0	\$0	\$0	\$0
Total Qualified Investment - Maina 1010 Total Qualified Investment - Service 1010	\$153,018,584	\$154,632,740	\$156,246,897		\$159,475,209	\$161,039,365	\$162,703,521	\$164,317,678	\$165,931,834	\$167,545,990	\$169,160,146	\$170,774,302	\$172,388,459	\$172,388,459
Total Qualified Investment - M&R 1010	\$27,945,773 \$10,692,448	\$28,228,250 \$10,813,510	\$28,510,728 \$10,934,572	\$28,793,205 \$11,055,634	\$29,075,682 \$11,176,695	\$29,358,160 \$11,297,757	\$29,640,637 \$11,418,819	\$29,923,114 \$11,539,880	\$30,205,592 \$11,660,942	\$30,488,069 \$11,782,004	\$30,770,546 \$11,903.066	\$31,053,024 \$12,024,127	\$31,335,503 \$12,145,189	\$31,335,501 512,145,189
Total Qualified Investment	\$191.656.805	\$193,674,501		\$197,709,891		\$201,745,282	\$203,762,977	\$205,780,672	\$207,798,367	\$209,816,063	\$211,833,758	\$213,851,453	\$215,869,148	\$215,869,148
		0100,011,001	01/1/0/2/17/0	313111031031	3177,121,200	9101,119,102	5205,102,517	3107,140,071	32011/30,207	3207,010,003	5211,055,155	4413,431,433	3213,007,140	3117,007,144
Less: Accumulated Depreciation	(\$16,564,242)	(\$16,849,015)	(\$17,136,781)	(\$17,427,541)	(\$17,721,293)	(\$18.018.038)	(\$18,317,775)	(\$18.620.506)	(\$18,926,230)	(\$19,234,946)	(\$19,546,656)	(\$19.861.358)	(\$20,179,054)	(\$20,179,054)
Net Book Value	\$175,092,563	\$176,825,485	\$178,555,414	\$180,282,351	\$182,006,294	\$183,727,244	\$185,445,202	\$1\$7,160,166	\$188,872,138	\$190,581,116	\$192,287,102	\$193,990,095	\$195,690,095	\$195,690,095
Average Net Qualified Investment		\$175,959,024	\$177,690,450	\$179,418,883	\$181,144,322	\$182,866,769	\$184,586,223	\$186,302,684	\$188,016,152	\$189,726,627	\$191,434,109	\$193,138,598	\$194,840,095	
Depreciation Rates														
Approved Depreciation Rate-Mains		1.60%	1.60%	1.60%	1.60%	1.60%	1.60%	1.60%	1.60%	1.60%	1.60%	1.60%	1.60%	
Approved Depreciation Rate-Services		2.50%	2.50%	2.50%	2.50%	2,50%	2.50%	2.50%	2.50%	2.50%	2,50%	2.50%	2.50%	
Approved Depreciation Rate - M&R City Gate		2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	
Return on Average Net Qualified Investment														
Equity - Cost of Capital, inclusive of Income Tax Gross-up		6.24%	6.24%	6.24%	6.24%	6.24%	6.24%	6.24%	6.24%	6.24%	6.24%	6.24%	6.24%	
Debt - Cost of Capital		1.34%	1.34%	1.34%	1.34%	1.34%	1.34%	1.34%	1.34%	1.34%	1.34%	1.34%	1.34%	
Equity Component - inclusive of Income Tax Gross-up		\$915,593	\$924,603	\$933,597	\$942,575	\$951,538	\$960,485	\$969,416	\$978,332	\$987,232	\$996,117	\$1,004,986	\$1,013,840	\$11,578,315
Debt Component Return Requirement		\$196,781 \$1,112,374	\$198,717 \$1,123,320	\$200,650	\$202,580	\$204,506 \$1,156,044	\$206,429	\$208,349 \$1,177,765	\$210,265	\$212,178 \$1,199,410	\$214,087	\$215,993 \$1,220,980	\$217,896	\$2,488,430 \$14,066,745
Kena ii Kequs einem		31,112,574	\$1,123,320	31,134,247	31,143,133	31,134,044	\$1,100,914	31,177,105	31,148,327	31,137,410	\$1,210,204	\$1,220,980	31,231,736	\$14,065,745
Investment Expenses														
Depreciation Expense - Mains		\$204,025	\$206,177	\$208,329	\$210,481	\$212,634	\$214,786	\$216,938	\$219,090	\$221,242	\$223,395	\$225,547	\$227,699	\$2,590,343
Depreciation Expense - Services		\$58,220	\$58,809	\$59,397	\$\$9,986	\$60,574	\$61,163	\$61,751	\$62,340	\$62,928	\$63,517	\$64,105	\$64,694	\$737,485
Depreciation Expense - M&R City Gate		\$22,528	\$22,780	\$23,033	\$23,285	\$23,537	\$23,789	\$24,041	\$24,294	\$24,546	\$24,798	\$25,050	\$25,302	\$286,984
Property Taxes		\$291,821	\$291,821	\$291,821	\$291,821	\$291,821	\$291,821	\$291,821	\$291,821	\$291,821	\$291,821	\$291,821	\$291,821	\$3,501,851
General Public Notice Expense & Customer Notice Expense Total Expense		\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	51,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$12,000
tora rapence		\$577,594	\$380,587	\$283,580	3265,7/3	\$289,566	\$592,559	\$595,552	\$598,545	\$601,538	\$604,530	\$607,523	\$610,516	\$7,128,663
Total Revenue Requirements														

Florida Public Utilities Company G3a Utility Access and Reptace Directive Projection of Qualified Mins & Sarvices Recornes Requirements Surcharge Calculation - January 1, 2001 through December 31, 2001 For Therm Rate

1. 1/1/31-12/31/31 Qualified Mains & Services Replacement Revenue Requirements			\$	21,195,408
Mains	\$0%	\$16,956,326		
Services	14%	\$2,967,357		
M&R	6%	\$1,271,724		
Net		\$21,195,408		
2. TRUE-UP from Prior Period (Over) Under Recovery Estimated thau 12/2030			s	
			s	21,195,40
 2031 Qualified Mains & Services Replacement Revenue Requirements 				
 2031 Qualified Mains & Services Replacement Revenue Requirements Mains 	80%	\$16,956,326		
	80%i 14%i	\$16,956,326 \$2,967,357		

RATE SCHEDULE	2023 THERMS	SERVICES COS %	MAINS COS %	M&R COS %	SERVICES REV REQ	MAINS REV REQ	M&R REV REQ	GUARD REV REQ	DOILARS PER THERM	TAX FACTOR	GUARD FACTORS FER THERM	TYPICAL ANNUAL THERMS	ANNUAL COST	AVERAGE MONTHLY COST
RES-1	1,520,128	27.37%	1.20%	1.20%	\$812,167	\$203,998	\$15,300	\$1,031,465	\$0.67854	1.00503	50.68195	54	\$36.69	\$3.06
RES-2	5,975,749	36.49%	4.71%	4.71%	\$1,082,674	\$799,357	\$59,952	\$1,941,983	\$0.32498	1.00503	\$0.32661	159	\$51.92	\$4.33
RES-3	12,959,345	19.15%	10.05%	10.05%	\$568,118	\$1,703,481	\$127,761	\$2,399,360	\$0.18515	1.00503	\$0,18608	665	\$123.73	\$10.31
RES-SG	96,299	1.05%	0.09%	0.09%	\$32,271	\$15,865	\$1,190	\$49,325	\$0.51221	1.00503	\$0.51479	109	\$56.14	\$4.68
GS-1	691,996	3,10%	0.60%	0.60%	\$92,064	\$101,699	\$7,627	\$201,390	\$0.29103	1.00503	\$0.29249	322	\$94.23	\$7.85
GS-2	7,230,026	4.14%	6.03%	6.03%	\$122,966	\$1,021,681	\$76,626	\$1,221,273	\$0,16892	1.00503	\$0.16977	2,902	\$492.74	\$41.06
GS-3	11,772,608	3.40%	9.57%	9.57%	\$100,995	\$1,623,405	\$121,755	\$1,846,156	\$0,15682	1.00503	\$0,15761	7,312	\$1,152.45	\$96.04
GS-4	24,944,789	3.66%	19.88%	19.88%	\$108,545	\$3,371,189	\$252,839	\$3,732,574	0.14963	1.00503	0.15039	17,895	\$2,677.62	\$223.14
GS-5	12,549,603	0.55%	9.71%	9.71%	\$16,238	\$1,646,049	\$123,454	\$1,785,740	\$0.14229	1.00503	\$0.14301	110,084	\$15,743.18	\$1,311.93
GS-6	11,918,155	0.21%	9.23%	9.23%	\$6,304	\$1,565,068	\$117,380	\$1,688,753	\$0.14170	1.00503	\$0.14241	350,534	\$49,919.04	\$4,159.92
GS-7	9,260,735	0.08%è	7.06%	7.06%	\$2,387	\$1,197,867	\$\$9,840	\$1,290,093	\$0.13931	1.00503	\$0.14001	771,728	\$108,048.55	\$9,004.05
QS-\$ (A-D)	22,737,656	0.05%	17.26%	17.26%	\$1,444	\$2,926,762	\$219,507	\$3,147,713	\$0.13844	1.00503	\$0.13913	2,842,207	\$395,443.20	\$32,953.60
COM-INT	9,502,459	0.17%	3.58%	3.58%	\$5,090	\$606,693	\$45,502	\$657,285	\$0.06917	1.00503	\$0.06952	558,968	\$38,858.33	\$3,238.19
COM-NGV	1,469,075	0.01%	0.89%	0.89%	\$287	\$150,697	\$11,302	\$162,286	\$0.11047	1.00503	\$0.11102	340,759	\$37,832.49	\$3,152.71
COM-OL	99,723	0.02%	0.05%	0.05%	\$546	\$12,965	\$972	\$14,483	\$0.14524	1.00503	\$0.14597	3,439	\$501.94	\$41.83
COM-SG	62,693	0.51%	0.06%	0.06%	\$15,261	\$9,551	\$716	\$25,528	\$0.40719	1.00503	\$0.40924	207	\$84.68	\$7.05
TOTAL	132,791,038	100%	100%	100%	2,967,357	16,956,326	1,271,724	21,195,408	-					

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Florida Public Utilities Company Ga Utility Access and Replace Directive Calculation of the Projected Revence Requirements January 1, 2032 through December 31, 2032

lism	Beginning Balance	Forecast Im	Forecast <u>Feb</u>	Forecast Mar	Forecast ADI	Forecast Max	Forecast Jun	Forecast Jul	Forecast <u>Aus</u>	Forecast Sen	Forecast <u>Oci</u>	Forecast Nov	Forecast Des	Year End Total Balance
Qualified Investment														
Qualified Investment - Mains - Current Year 1070 Activity		\$323,981	\$323,981	\$323,981	\$323,981	\$323,981	\$323,981	\$323,981	\$323,981	\$323,981	\$323,981	\$323,981	\$323,981	\$3,887,774
Qualified Investment - Mains - Closed 1070 Activity to Plant		(\$323,981)	(\$323,981)	(\$323,981)	(\$323,981)	(\$323,981)	(\$323,981)	(\$323,981)	(\$323,981)	(\$323,981)	(\$323,981)	(\$323,981)	(\$323,981)	(\$3,887,774)
Qualified Investment - Services - Current Year 1070 Activity		\$56,697	\$56,697	\$56,697	\$56,697	\$56,697	\$56,697	\$56,697	\$56,697	\$56,697	\$56,697	\$56,697	\$56,697	\$680,360
Qualified Investment - Services - Closed 1070 Activity to Plant		(\$56,697)	(\$56,697)	(\$56,697)	(\$56,697)	(\$56,697)	(\$56,697)	(\$56,697)	(\$56,697)	(\$56,697)	(\$56,697)	(\$56,697) \$24,299	(\$56,697) \$24,299	(\$680,360) \$291,583
Qualified Investment - M&R - Current Year 1070 Activity Oualified Investment - M&R - Closed 1070 Activity to Flant		\$24,299 (\$24,299)	\$24,299 (\$24,299)	\$24,299 (\$24,299)	\$24,299 (\$24,299)	\$24,299 (\$24,299)	\$24,299 (\$24,299)	\$24,299 (\$24,299)	\$24,299 (\$24,299)	\$24,299 (\$24,299)	\$24,299 (\$24,299)	\$24,299	(\$24,299)	(\$291,583)
Qualified Investment - Mains - Current 1010 Activity to Film		(\$24,299) \$323,981	\$323,981	(\$24,299) \$323,981	\$323,981	(\$24,299) \$323,981	\$323,981	\$323,981	\$323,981	\$323,981	\$323,981	\$323,981	\$323,981	\$3.887.774
Qualified Investment - Services - Current 1010 Activity		\$56,697	\$56.697	\$56,697	\$56,697	\$56,697	\$56,697	\$56,697	\$56,697	\$56,697	\$56,697	\$56,697	\$56,697	\$680,360
Qualified Investment - M&R - Current 1010 Activity		\$24,292	\$24,299	\$24,299	\$24,299	\$24,293	\$24,259	\$24,299	\$24,299	\$24,299	\$24,299	\$24,299	\$24,299	\$291,583
Total Oualified Investment - Mains 1070	\$0	50	\$0	50	\$0	\$0	\$0	\$0	20	50	\$0	\$0	\$0	50
Total Qualified Investment - Service 1070	50	50	50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Qualified Investment - M&R 1070	\$0	50	\$0	50	50	\$0	\$0	\$0	\$0	\$0	50	\$0	\$0	\$0
Total Qualified Investment - Mains 1010	\$172,388,459	\$172,712,440	\$173,036,421	\$173,360,402	\$173,684,383	\$174,008,364	\$174,332,345	\$174,656,327	\$174,980,308	\$175,304,289	\$175,628,270	\$175,952,251	\$176,276,232	\$176,276,232
Total Qualified Investment - Service 1010	\$31,335,501	\$31,392,198	\$31,448,894	\$31,505,591	\$31,562,288	\$31,618,984	\$31,675,681	\$31,732,378	\$31,789,074	\$31,845,771	\$31,902,468	\$31,959,165	\$32,015,861	\$32,015,861
Total Qualified Investment - M&R 1010	\$12,145,189	\$12,169,488	\$12,193,786	\$12,218,085	\$12,242,383	\$12,266,682	\$12,290,980	\$12,315,279	\$12,339,578	\$12,363,876	\$12,388,175	\$12,412,473	\$12,436,772	\$12,436,772
Total Qualified Investment	\$215,869,148	\$216,274,125	\$216,679,101	\$217,034,078	\$217,489,054	\$217,894,030	\$218,299,007	\$218,703,983	\$219,108,960	\$219,513,936	\$219,918,913	\$220,323,889	\$220,728,865	\$220,728,865
Less: Accumulated Depreciation			(\$20,820,628)			(\$21,787,494)	(\$22,110,984)	(\$22,435,075)	(\$22,759,767)	(\$23,085,060)	(\$23,410,953)	(\$23,737,446)	(\$24,064,541)	(\$24,064,541)
Net Book Value	\$195,690,095	\$195,774,584	\$195,858,473	\$195,941,762	\$196,024,449	\$196,106,536	\$196,188,022	\$196,268,908	\$196,349,193	\$196,428,877	\$196,507,969	\$196,586,443	\$196,664,324	\$196,664,324
Average Net Qualified Investment		\$195,732,340	\$195,816,529	\$195,900,118	\$195,983,105	\$196,065,493	\$196,147,279	\$196,228,465	\$196,309,050	\$196,389,035	\$196,468,418	\$196,547,201	\$196,625,384	
Depreciation Rates														
Approved Depreciation Rate-Maina		1.60%	1.60%	1.60%	1.60%	1.60%	1.60%	1.60%	1.60%	1.60%	1.60%	1.60%	1.60%	
Approved Depreciation Rate-Services		2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	
Approved Depreciation Rate - M&R City Gate		2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	
Return on Average Net Qualified Investment														
Equity - Cost of Capital, inclusive of Income Tax Gross-up		6.24%		6.24%	6.24%	6.24%	6.24%	6.24%	6.24%	6,24%	6.24%	6.24%	6.24%	
Debt - Cost of Capital		1.34%	134*;	1.34%	1.34%	1.34%	1.34%	1.34%	1.34%	1.34%	1_34%	1.34%	1.34%	
Equity Component - inclusive of Income Tax Gross-up		\$1,018,483	\$1,018,921	\$1,019,356	\$1,019,788	\$1,020,216	\$1,020,642	\$1,021,064	\$1,021,484	\$1,021,900	\$1,022,313	\$1,022,723	\$1,023,130	\$12,250,020
Debt Component		5218,894	\$218,988	\$219,082	\$219,174	\$219,267	\$219,358	\$219,449	\$219,539	\$219,628	\$219,717	\$219,805	\$219,893	\$2,632,794
Return Requirement		\$1,237,377	\$1,237,909	\$1,238,438	\$1,238,962	\$1,239,483	\$1,240,000	\$1,240,513	\$1,241,023	\$1,241,528	\$1,242,030	\$1,242,528	\$1,243,023	\$14,882,814
Investment Expenses														
Depreciation Expense - Mains		\$229,851	\$230,283	\$230,715	\$231,147	\$231,579	\$232,011	\$232,443	\$232,875	\$233,307	\$233,739	\$234,171	\$234,603	\$2,786,726
Depreciation Expense - Services		\$65,282	\$65,400	\$65,519	\$65,637	\$65,755	\$65,873	\$65,991	\$66,109	\$66,227	\$66,345	\$66,463	\$66,582	\$791,183
Depreciation Expense - M&R City Gate		\$25,353	\$25,404	\$25,454	\$25,505	\$25,556	\$25,606	\$25,657	\$25,707	\$25,758	\$25,809	\$25,859	\$25,910	\$307,578
Property Taxes		\$326,150	\$326,150	\$326,150	\$326,150	\$326,150	\$326,150	\$326,150	\$326,150	\$326,150	\$326,150	\$326,150	\$326,150	\$3,913,802
General Public Notice Expense & Curtomer Notice Expense		\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$12,000
Total Expense		\$647,637	\$648,238	\$648,838	\$649,439	\$650,040	\$650,640	\$651,241	\$651,842	\$652,443	\$653,043	\$653,644	\$654,245	\$7,811,289

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Florida Public Utilities Company Gau Utility Access and Replace Directive Projection of Quilifed Mains & Services Recense Requirements Surcharge Calculation - Janusy 1, 2020 demugh December 31, 2032 Per Therm Rate

ł.	1/1/33-1231/32 Qualified Mains & Services Replacement Revenue Requirements Mains Services M&R Nit	80% 14% 6%	\$18,155,282 \$3,177,174 \$1,361,646 \$22,694,103	\$	22,694,103
2.	TRUE-UP from Prior Period (Over) Under Recovery Estimated thru 12/2031			\$	•
3.	2032 Qualified Maine & Services Replacement Revenue Requirements Máni Services Services MAR Net	80% 14% 6%	\$18,155,282 \$3,177,174 \$1,361,646 \$22,694,103	s	22,694,103

									DOLLARS		GUARD	TYPICAL		AVERAGE
RATE SCHEDULE	2023 THERMS	SERVICES COS %	MAINS COS %	M&R COS %	SERVICES REV REO	MAINS REV REO	M&R REV REO	GUARD REV REO	FER THERM	TAX FACTOR	FACTORS FER THERM	ANNUAL THERMS	ANNUAL COST	MONTHLY COST
RES-1	1,520,128	27.37%	1.20%	1.20%	\$869,595	\$218,422	\$16,382	\$1,104,399	\$0.72652	1.00503	\$0,73017	54	\$39.28	\$3.27
RES-2	5,975,749	36.49%	4.71%	4.71%	\$1,159,228	\$855,879	\$64,191	\$2,079,297	\$0.34796	1.00503	\$0.34971	159	\$55.60	\$4.63
RES-3	12,959,345	19.15%	10.05%	10.05%	\$608,289	\$1,823,931	\$136,795	\$2,569,015	\$0.19824	1.00503	\$0.19923	665	\$132.47	\$11.04
RES-SG	96,299	1.09%	0.09%	0.09%	\$34,553	\$16,986	\$1,274	\$52,813	\$0.54843	1.00503	\$0.55119	109	\$60.11	\$5.01
GS-1	691,996	3.10%	0.60%	0.69%	\$98,573	\$108,890	\$8,167	\$215,630	\$0.31161	1.00503	\$0.31317	322	\$100.89	\$8.41
GS-2	7,230,026	4.14%	6.03%	6.03%	\$131,661	\$1,093,922	\$82,044	\$1,307,627	\$0.18086	1.00503	\$0.18177	2,902	\$527.58	\$43.97
GS-3	11,772,608	3,40%	9.57%	9,57%	\$108,136	\$1,738,194	\$130,365	\$1,976,695	\$0.16791	1.00503	\$0.16875	7,312	\$1,233.94	\$102.83
GS-4	24,944,789	3.66%	19.88°o	19.88%	\$116,221	\$3,609,561	\$270,717	\$3,996,498	0.16021	1.00503	0.16102	17,805	\$2,866.95	\$238.91
GS-5	12,549,603	0.55%	9.71%	9.71**	\$17,386	\$1,762,438	\$132,183	\$1,912,007	\$0.15236	1.00503	\$0.15312	110,084	\$16,856.35	\$1,404.70
GS-6	11,918,155	0.21%	9.23%	9.23%	\$6,750	\$1,675,732	\$125,680	\$1,808,162	\$0.15171	1.00503	\$0,15248	350,534	\$53,448.74	\$4,454.06
GS-7	9,260,735	0.05?è	7.06%	7.06%	\$2,556	\$1,282,566	\$96,192	\$1,381,314	\$0.14916	1.00503	\$0.14991	771,728	\$115,688.50	\$9,640.71
GS-8 (A-D)	22,737,656	0.05%	17.26%	17.26%	\$1,546	\$3,133,708	\$235,028	\$3,370,283	\$0.14822	1.00503	\$0.14897	2,842,207	\$423,404.39	\$35,283.70
COM-INT	9,502,459	0.17%	3.58%	3.58%	\$5,450	\$649,591	\$48,719	\$703,761	\$0.07406	1.00503	\$0.07443	558,968	\$41,605.94	\$3,467.16
COM-NGV	1,469,075	0.01%	0.89%	0.89%	\$307	\$161,353	\$12,101	\$173,761	\$0.11828	1.00503	\$0,11887	340,759	\$ 40,507.56	\$3,375.63
COM-OL	99,723	0.02%	0.05%	0.08%	\$584	\$13,882	\$1,041	\$15,507	\$0.15551	1.00503	\$0.15629	3,439	\$537.43	\$44.79
COM-SG	62,693	0.51%	0.06%	0.06%	\$16,340	\$10,227	\$767	\$27,333	\$0.43599	1.00503	\$0.43818	207	\$90.66	\$7.56
TOTAL	132,791,038	100%	100%	100%	3,177,174	18,155,282	1,361,646	22,694,103						