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SOUTHERN INDIANA GAS AND ELECTRIC COMPANY
d/b/a CENTERPOINT ENERGY INDIANA SOUTH
(CEI SOUTH)

IURC CAUSE NO. 38708 FAC 143

IURC
PETITIONER'S 1
EXHIBIT NO.
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DATE REPORTER

DIRECT TESTIMONY

OF

F. SHANE BRADFORD

VICE PRESIDENT POWER GENERATION OPERATIONS

ON

PURCHASED POWER AND COAL INVENTORY

OFFICIAL
EXHIBITS

SPONSORING ATTACHMENT FSB-1 THROUGH FSB-2

DIRECT TESTIMONY OF F. SHANE BRADFORD

INTRODUCTION

Q. Please state your name and business address.

A. My name is F. Shane Bradford. My business address is 211 NW Riverside Drive, Evansville, Indiana 47708.

Q. By whom are you employed?

A. I am employed by Southern Indiana Gas and Electric Company d/b/a CenterPoint Energy Indiana South ("CEI South")[1].

Q. On whose behalf are you submitting this direct testimony?

A. I am submitting testimony on behalf of CEI South, which is an indirect subsidiary of CenterPoint Energy, Inc.

Q. What is your role with respect to Petitioner CEI South?

A. I am Vice President, Power Generation Operations.

Q. Please describe your educational background.

A. I received a Bachelor of Science in Civil Engineering (1992) from the University of Dayton and a Master's in Business Administration (2002) from Indiana State University.

Q. Please describe your professional experience.

A. I began my career in the utility industry at Dayton Power and Light Co. performing various maintenance and production roles within the electric generation division from 1992 to 1999. In 1999, I joined Cinergy's electric generation division and fulfilled various maintenance and production responsibilities until 2003 when I became a plant manager for one of Cinergy's subsidiaries, Trigen Cinergy Solutions LLC. In 2004, I

[1] For the sake of clarity, my testimony refers to CEI South, even though in certain situations, I may be referring to one of CEI South's predecessor companies.

took a position with CEI South as a Power Plant Director responsible for providing leadership and management focused on safe, environmentally responsible, reliable, and efficient electric generation. In 2021, I was named Director, Power Supply Service, where I was responsible for Wholesale Power Marketing, Market Settlements, and Market Development. I was named to my current position in January 2023.

Q. What are your present duties and responsibilities as Vice-President of Power Generation Operations?

A. I am responsible for the overall budgeting, operation, maintenance, and personnel decisions for CEI South's electric generation fleet. In addition, I have responsibility for ensuring the demand of our customers is met at a reasonable cost through the production and purchase of electric energy, including fuel purchases, necessary to meet the needs of our jurisdictional customers. I am responsible for completing these functions while ensuring compliance with the environmental requirements of all applicable regulatory or governmental agencies. As part of overseeing CEI South's generation assets, I supervise personnel providing cost inputs to the modeling associated with the Integrated Resource Plan process. In addition, I have responsibility for the commercial negotiations and dealings with generation resources.

Q. Have you previously testified before the Indiana Utility Regulatory Commission ("Commission")?

A. Yes. I provided testimony before the Commission in Cause No. 45501 in support of CEI South's request for (1) a certificate of public convenience and necessity ("CPCN") to purchase and acquire, indirectly through a Build Transfer Agreement ("BTA"), a 300 MWac solar facility in Posey County, Indiana and (2) authorization to enter into a Power Purchase Agreement ("PPA") to purchase energy and capacity from a 100 MWac solar project in Warrick County. I also provided testimony before the Commission in Cause No. 45564 in support of CEI South's request for a CPCN to construct two natural gas combustion turbines providing approximately 460 MW of capacity. In addition, I provided testimony before the Commission in Cause No. 45754 in support of CEI South's request for a CPCN to purchase and acquire, indirectly through a BTA, a 130 MWac solar facility in Pike County, Indiana; in Cause No. 45836 in support of CEI South's request for a CPCN to purchase and acquire, indirectly through a BTA, a wind facility; in Cause No. 45847 in support of CEI South's request to amend and restate its BTA for the Posey County solar facility; in Cause No 45903 in support of CEI South's request for a CPCN to recover costs associated with closing the Culley East ash pond as required by the CCR Rule; in Cause No 45990 in support of CEI South's electric rate case; and in Cause No 46058 in support of CEI South's request for authorization to enter into a PPA to purchase energy and capacity from the 147 MW Galesburg Wind Project. Finally, I provided testimony in CEI South's Clean Energy Cost Adjustment ("CECA") proceeding under Cause No 44909, its Environmental Cost Adjustment ("ECA") under Cause No. 45052, its Reliability Cost and Revenue Adjustment ("RCRA") under Cause No. 43406, and in this Fuel Adjustment Clause ("FAC") proceeding under Cause No. 38708.

Q. What is the purpose of your testimony in this proceeding?

A. The purpose of my testimony is to provide information regarding CEI South's power purchases and related costs as a participant in the Midcontinent Independent System Operator ("MISO") Energy Market, CEI South's fuel supply, and to sponsor Attachment FSB-1, which consists of schedules that present the calculations of the MISO components included in fuel costs, the calculations of the daily benchmark prices applicable to purchased power for December 2023 through February 2024 (the "Reconciliation Period"), and information about over-benchmark purchased power costs that are reasonable and recoverable under the applicable settlement. I will share details of a short-term power purchase CEI South recently contracted. Lastly, I will also present an update to the 2023 and 2024 coal plan.

MISO

Q. Are you generally familiar with the operations of MISO, including MISO Day 2 Market Initiative and Day 3 Ancillary Services Market ("ASM")?

A. Yes, I am.

Q. Have you reviewed the Commission's June 1, 2005, Order in Cause No. 42685 ("42685 Order") and June 30, 2009, Phase II Order in Cause No. 43426 ("ASM Phase II Order")?

A. Yes.

Q. Is CEI South's proposed recovery of costs for the Reconciliation Period consistent with your understanding of the Commission's 42685 Order and ASM Phase II Order?

A. Yes, CEI South's FAC 143 filing is consistent with my understanding of those Commission Orders.

Q. Please summarize your understanding of the impact of MISO Day 2 on CEI South's operations.

A. MISO's implementation of the Day 2 Market Initiative resulted in operational changes for CEI South. MISO Day 2 features a wide-area security constrained centralized dispatch across a significant geographic footprint spanning 36 Local Balancing Authorities across fifteen states and Manitoba. Through centralized dispatch, this market brings about an integration of system operations and market operations unlike what existed in this region prior to the start of Day 2. This caused both changes to existing operating procedures and the creation of new operational infrastructure. These operational changes result in costs and cost structures that differ in form from those that previously existed.

As a result of the existence of the Day 2 market, the cost for CEI South to serve its native load customers now includes both its own generation and MISO dispatched economic energy purchases.

Q. Briefly describe the MISO costs and revenues that CEI South is seeking to include in this FAC proceeding.

A. Consistent with the 42685 Order, CEI South is requesting that fuel-related MISO costs and revenues track through its current FAC. Attachment FSB-1, Schedule 1, contains a summary of the determination of MISO Components of Fuel Costs, exclusive of purchased power costs, for the Reconciliation Period. In addition, CEI South is requesting recovery of projected MISO costs for the period of August 2024 through October 2024. These projected costs include the estimated level of the net effect of delta Locational Marginal Pricing ("LMPs"), Day Ahead and Reliability Assessment Commitment ("RAC") recovery of unit commitment costs, Financial Transmission Right ("FTR") revenue and expenses, and Real Time Marginal Loss Surplus credits.

Q. Are costs associated with MISO's ASM included in the amounts for which you are seeking recovery in this FAC?

A. Yes. Consistent with the Commission's Phase I Order in Cause No. 43426, dated August 13, 2008, CEI South has included for recovery in the FAC those costs for charge types identified as "modified" under the ASM and which were previously recovered in the FAC. Additionally, the Commission issued its ASM Phase II Order on June 30, 2009, that authorized CEI South to include certain new MISO charges and credits as a cost of fuel for recovery in its FAC proceedings.

Q. Did the ASM Phase II Order contain any reporting requirements?

A. Yes. In compliance with the Phase II Order, CEI South must report the monthly average ASM Cost Distribution average dollar per megawatt hours ("MWh") paid for Regulation, Spinning, Supplemental, and Short-Term Reserves. The amounts for December 2023 through February 2024 are as follows:

	Regulation	Spinning	Supplemental	Short-Term
December 2023	$0.0311	$0.0319	$0.0027	$0.0073
January 2024	$0.0176	$0.0252	$0.0047	$0.1161
February 2024	$0.0354	$0.0259	$0.0034	$0.0079

Q. Given the centralized MISO economic dispatch structure of the Day 2 market, how does CEI South explicitly identify the quantity of purchased power and wholesale sales in each hour?

A. If in a given hour CEI South withdraws more MWh from the grid at its load zone than CEI South generating units inject to the grid, those excess MWh withdrawn are purchased power amounts. Conversely, if in a given hour CEI South generating units inject more MWh to the grid than CEI South withdraws from the grid at its load zone, those excess MWh injected are allocated to wholesale sale amounts.

Q. Is the proposed pass through of Revenue Sufficiency Guarantee ("RSG") amounts in this Cause consistent with your understanding of the Commission's July 16, 2008, Order in Cause No. 43475?

A. Yes.

Q. Are MISO fuel components also included in this FAC?

A. Yes. All the requested MISO components qualify for recovery in this FAC pursuant to the Commission's Orders in Cause Nos. 42685, 43475, 43426, and 38708 FAC 73. In addition, as a result of FERC Order 719 (issued on October 17, 2008) and FERC Order 745 (issued on March 15, 2011) additional charge types have been included for recovery. These charge types were effective June 12, 2012, and discussed in FAC 96 and FAC 97.

PURCHASED POWER RECOVERY

Q. Please describe the mechanism in place for recovery of the cost of energy purchased in MISO Energy Markets.

A. Pursuant to an approved settlement, the cost associated with each purchase is calculated for a given hour as the product of the number of MW purchased for that hour and the purchase price for that hour. To assist in the FAC review of the reasonableness of power purchases, the settlement provides that a benchmark price is applied to purchases and any purchases made in the course of MISO's economic dispatch regime to meet jurisdictional retail load are a cost of fuel and are fully recoverable in the FAC up to the benchmark.

Above-benchmark purchases are also recoverable, so long as the purchases can be shown to be reasonable based on an evaluation conducted with factors set forth in the settlement. As explained by the Commission in Cause No. 41363:

> Our March 10, 1999, Docket Entry was clear that we contemplated that a benchmark would merely be a triggering mechanism-that is, if a benchmark is exceeded the utility would have the opportunity to submit additional evidence demonstrating the reasonableness of its power purchases for cost recovery purposes. Every electric generating utility should have the opportunity to request recovery of and justify the reasonableness of purchased power costs above the benchmark. In the event a utility exceeds the benchmark, the standard to be used to review such purchases will be of the reasonableness of the decisions under the circumstances which were known (or which reasonably should have been known) at the time the purchases were made, not an after the fact focus using hindsight judgment.

(IURC Order, Aug. 18, 1999, p. 11).

Q. What is CEI South's benchmark for purchased power costs?

A. In Cause No. 43414, the Commission approved the establishment of daily benchmarks. The daily benchmarks are established based upon a generic Gas Turbine ("GT"), using a generic GT heat rate of 12,500 Btu/kWh, and using the NYMEX Henry Hub Gas Day Ahead price plus $0.60/MMBtu gas transport charge for a generic gas-fired GT. Changes were approved in Cause No. 43414 to the parameters used to determine amounts over the daily benchmarks.

Q. Is a Schedule showing the Daily Benchmarks for purchased power for the Reconciliation Period included in this Cause?

A. Yes. Attachment FSB-1, Schedule 2, presents the Daily Benchmark amounts for each day in the Reconciliation Period.

Q. What are the amounts of purchased power in excess of the Daily Benchmarks incurred by CEI South during the Reconciliation Period?

A. As shown on Attachment FSB-1, Schedule 3, CEI South determined that purchased power costs exceeded the Daily Benchmarks during the Reconciliation Period as follows: December 2023, $46,819.44; January 2024, $696,081.43; and February 2024, $290,339.96. These costs were incurred pursuant to MISO's security constrained economic dispatch across its footprint because MISO elected to utilize other generation when CEI South needed additional power.

Q. Are all over-benchmark purchases during the Reconciliation Period determined to be recoverable?

A. No. Applying the criteria established by the Benchmark Settlement, CEI South has determined that $46,853.46 of the $1,033,240.83 over benchmark purchases are non-recoverable. The remaining $986,387.37 over benchmark purchases are recoverable. Attachment FSB-1, Schedule 3 provides the reason each purchase was made. As contemplated by the Commission in its Order in Cause No. 42770, all these purchases were within "the utility's reasonably expected cost of purchased power under an economic dispatch regime." CEI South acted appropriately in the operation of its generation and its participation in MISO to maintain safe, adequate, and reliable service to its retail customers. The beneficiaries of these purchases were CEI South's retail customers. Without these purchases, CEI South could not have met the demands of its retail customers while complying with MISO dispatch instructions. Recovery of these purchased power costs only makes CEI South whole for costs incurred to meet the demand of retail customers.

Q. Why does MISO at times choose to instruct CEI South to purchase from the market rather than operate generation internal to its control area?

A. Since the 42685 Order, MISO has dispatched generation. MISO first considers its security constrained economic dispatch model to determine what generation is necessary to meet the next day's system demand with the lowest total cost. If this evaluation shows that the total daily cost is predicted to be less using market purchases rather than calling for CEI South's internal generation, then that is the MISO directive CEI South will be given for the Day Ahead market. Additional consideration will be given to the potential impact to system congestion, which is impacted by market purchases versus CEI South peaking generation operation. The summation of these variables is that every day's evaluation has a different set of conditions and inputs which can only be evaluated by MISO on a regional basis. Thus, like any generator, CEI South is sometimes required by MISO to make economic purchases at the lowest cost reasonably possible. With the influx of new generation sources such as wind, and the dramatic reduction in gas prices, other generation sources now are available in the market at competitive prices. Some of these sources, like wind, are so inexpensive in off peak hours that they are selected in the Day Ahead market. The reasonable purchase costs reflected in the FAC are the product of MISO's economic dispatch.

Q. Does CEI South ever deviate from MISO dispatch in order to operate its gas peaking generation?

A. Generally, CEI South follows instructions from MISO on when to operate gas peaking generation. CEI South's on-duty system generation operators are provided plans from MISO, and they follow those dispatch plans. Most often, MISO will call on peaking units in the Real Time (intra-day) market but will on occasion also call for a Peaker through the Day Ahead market. The system generation operators will generally vary from these MISO plans only when notified by local transmission system operators that there is a local distribution or transmission constraint that would be eliminated by the use of peaking generation.

In terms of determining whether to operate the peaking units for purely economic reasons, CEI South's system generation operator evaluates the Real Time Market price of power and compares it to the alternative of starting a natural gas peaking unit for a brief period. The operator monitors the five-minute price signals to determine if they believe the hourly market price will integrate high enough to justify starting a gas turbine. This determination is made knowing that the next five-minute price signal will likely change. A higher price often exists due to an event on the system that sends a price signal for generators to increase production. Once generation is increased, the price will drop; therefore, given these conditions the operator will almost always choose to follow the MISO dispatch signal rather than betting on a sustained higher price.

In addition, when evaluating the operation of a specific gas turbine, the operator must consider, among other things, (1) the time it takes to bring the unit on line, (2) the actual cost of fuel consumed during the period of time from initial firing until the unit is synchronized to the system, as well as the cost of gas used during controlled unit shut down, and (3) the likelihood that the unit will run at a reduced capacity factor, which increases the heat rate, adding to run costs. These must be spread over the total cost of the MWh produced by the machine. These are reasons why the cost of production during short periods often exceeds the price of power purchased from the economic marketplace.

Moreover, failure to comply with MISO's dispatch directive would result in assessment of uninstructed deviation charges of unknown amounts to CEI South. Given these cost and price risks, absent unusual market conditions, it is unlikely CEI South will ignore MISO dispatch and operate its peaking units for economic reasons.

Q. Are any purchases from the Benton County Wind Farm ("BCWF") and Fowler Ridge II ("FRII") included in this FAC?

A. Yes. Pursuant to the approval received in Cause No. 43259, CEI South began receiving power from BCWF on May 7, 2008, when the facility began commercial operation. CEI South's Renewable Energy Purchase Agreement ("REPA") with FRII was approved in Cause No. 43635 on June 17, 2009, and FRII began commercial operation on December 16, 2009. Consistent with the order in Cause No. 43635, CEI South has included in this FAC those charges or credits related to the REPA that are treated by the Commission as components of fuel.

Q. Are there any amounts shown as purchased power from BCWF and FRII included in the monthly work papers?

A. Yes. The details of power purchased from BCWF and FRII are included in the confidential work papers provided to the OUCC.

Q. How has CEI South estimated the generation received from BCWF in this FAC?

A. In response to the fluctuations in CEI South's share of generation of BCWF, CEI South's projections reflect recent historical output from BCWF. CEI South has created an output profile for BCWF that is based on CEI South's monthly average actual share of generation received from BCWF since March 2013 when BCWF was designated a Dispatchable Intermittent Resource ("DIR"). CEI South will update this output profile and its estimates for BCWF in each future FAC based on recent historical data.

Q. Have negative LMPs from BCWF or FRII been experienced?

A. Yes. LMPs can be negative whenever there is congestion on a node. MISO uses negative pricing to rein in a bottleneck, which can occur with wind energy. For the FAC period there were 401 hours when the LMP was negative at BCWF, and 57 hours when the LMP was negative at FRII. This resulted in total charges of $40,702.24.

Q. Please describe how CEI South uses the DIR designation.

A. MISO has attempted to address the operational challenges associated with the variable nature of wind power by allowing these resources to participate fully in MISO's economic dispatch under a DIR resource designation. After consulting with MISO regarding requirements and stipulations around registering wind farms, CEI South was notified that it was required to register BCWF as a DIR. The registration was completed in December 2012, and BCWF became a DIR on March 1, 2013. CEI South is not required to register FRII as a DIR because it meets an exception through its firm transmission into MISO.

Q. How has DIR impacted CEI South and its customers?

A. Generally, since BCWF was registered as a DIR in March of 2013, generation output for CEI South customers has been reduced.

SALES OF RENEWABLE ENERGY CERTIFICATES

Q. Did CEI South include sales of Renewable Energy Certificates ("RECs") in this FAC?

A. Yes. Sales of RECs were recorded in the Reconciliation Period. The net amounts of those sales are included, as reductions to the cost of purchased power, in the calculation of purchased power costs for the respective months. For the Reconciliation Period, purchased power costs have been reduced by the net REC sales proceeds of $(1,738,895.54).

SHORT-TERM PURCHASED POWER CONTRACT

Q. Please share the details of the short-term power purchase CEI South recently contracted.

A. CEI South has contracted to purchase [redacted] MW of power in May & September and [redacted] MW in June through August of 2024. The power is delivered to CEI South's SIGE.SIGW node in MISO during on-peak hours only for [redacted]/MWh (totaling approximately [redacted]) from the [redacted]. Delivery to CEI South's SIGE.SIGW node in MISO prevents the addition of congestion charges.

Q. Why did CEI South enter into this short-term power purchase contract?

CEI South is expected to be a net energy importer from MISO in 2024 due to the gap between the closure of A.B. Brown coal-fired units 1 & 2 and CEI South's exit of the joint operating agreement ("JOA") related to the Warrick 4 coal-fired unit in late 2023, and the expected dates for the A.B. Brown combustion turbines and the Posey Solar project to come online in mid-2025. As such, CEI South contracted this on-peak purchase power during the summer months, when load has historically been and is expected to be high and MISO LMPs are forecasted to be elevated, to limit exposure to energy market price volatility by locking in a portion of CEI South's energy needs. This approach balances exposure to market volatility while securing a portion of power during MISO's largest demand.

Q. Please provide the justification to support contracting the power at [redacted]/MWh?

A. At the time when this power purchase contract was executed, forecasted May – September MISO LMPs ranged between $44/MWh - $51/MWh. In addition, historical LMPs since 2018 have averaged $47/MWh during the May – September timeframe.

Q. Do you feel the contract price is reasonable?

A. Yes. As I've shown above, the historical and forecasted LMPs supports the [redacted]/MWh contract, plus it provides protection against the $100+/MWh LMP market volatility experienced in recent years.

FUEL FOR GENERATION

Q. What sources of fuel does CEI South use for generating purposes, and what costs are incurred?

A. CEI South utilizes coal and natural gas for electric generation and incurs the costs of purchasing those fuels, including fuel-related transportation and storage costs. In addition, CEI South has solar, wind, battery storage, and landfill gas as part of the electric generation portfolio.

Q. Please describe CEI South's coal purchasing practices.

A. CEI South utilizes Indiana coal as its primary fuel source for electric generation. Coal is purchased primarily under multi-year contracts to maintain a reliable source of coal.

Q. Does CEI South have a portfolio of supply contracts with staggered pricing terms in place to mitigate potential coal market volatility?

A. No. With the closure of the AB Brown coal-fired units and the exit of the Warrick Unit 4 JOA, CEI has only one remaining supply contract in place that supports re-pricing opportunities for CEI South's supply, and gives volume flexibility, but also leave opportunities for spot purchases as needed. The contract also provides coal with specifications that support CEI South's emissions compliance strategy.

Q. Has CEI South made every reasonable effort to provide power as economically as possible?

A. Yes. CEI South's generating units are offered into the MISO Day Ahead and Real Time markets and are dispatched by the MISO on an economic basis. CEI South has contracted through competitive processes to purchase its coal requirements from nearby mines at reasonable market prices. Purchasing from mines in close proximity to CEI South's generating stations helps minimize transportation costs while providing a reliable, reasonably priced fuel supply.

COAL INVENTORY

Q. What is the status of CEI South's coal inventory?

A. As of April 30, 2024, coal inventory at CEI South's coal-fired generating plants stood at approximately 400,357 tons. This is an increase of 69,164 tons from the inventory level reported in FAC 142.

Q. Please provide the month-ending coal inventory levels by plant and total in 2024.

A.

Month	Brown	Culley	Total
January	88,846	242,347	331,193
February	76,910	293,405	370,315
March	47,825	340,045	387,870
April	42,131	358,226	400,357
May			
June			
July			
August			
September			
October			
November			
December			

Q. Does CEI South have an inventory target to assure reliability?

A. Yes. CEI South's target inventory is driven in part by the risk CEI South is willing to take regarding deliveries being suspended due to a mine issue (safety, Mine Safety and Health Administration, productivity issues, employee retention or strike, etc.), or rail or truck transportation issues (equipment issues or employee retention or strikes), and how long these supply interruptions might reasonably be expected to last. The target inventory also attempts to account for the carrying costs for holding the inventory. Considering these various factors of mine risks, transportation risks, and carrying costs, CEI South generally targets a reserve inventory of about 60 days ± 30 days dependent on contractual commitments. The level of burn can vary, and therefore, target inventory should fall within a range. For CEI South's operating purposes, inventory of approximately [redacted] tons is considered a reasonable target.

Q. With the A.B. Brown coal-fired unit closure in 2023, what will CEI South do with the remaining coal inventory at this site?

A. The remaining A.B. Brown coal inventory will be taken to F.B. Culley in 2024.

GOVERNMENT IMPOSITION/CHANGE IN LAW

Q. Were there any historical Changes in Law that impacted the final price paid for coal in 2023?

A. Yes. On April 28, 2016, [redacted] notified Petitioner of a Change in Law as mandated by the Mine Safety and Health Administration ("MSHA") as it relates to Continuous Personal Dust Monitors ("CPDM"). The rule requires miners to wear a CPDM device that measures and displays the real-time accumulated and full shift exposure to coal mine dust to allow miners to take immediate action to avoid excessive airborne dust levels. The rule required mines to purchase CPDM devices for miners and provide training on the proper use and calibration. At the time, [redacted] estimated the cost impact to be [redacted] per ton, and CEI South and [redacted] agreed that Petitioner would be charged at year end when actual costs were known.

Q. Has there been any additional Changes in Law that impacted the final price paid for coal in 2023?

A. No.

Q. Is the passing on of these mandated Changes in Law costs permitted by contract?

A. Yes. Article 3.3 of the Coal Supply Agreement between Petitioner and [redacted] allows [redacted] to pass on costs as a result of legislative, regulatory, administrative, or other government bodies to include procedural instruction letters issued by MSHA as long as the change in law doesn't exceed [redacted] of the then current base price.

Q. What was the actual price increase for 2023?

A. The final charge related to the CPDM mandate was [redacted] per ton for coal received between January and December of 2023. The total charge for this period was [redacted]. This included [redacted] for the Brown plant, [redacted] for the Culley plant, and [redacted] for the Warrick plant.

Q. Will there be charges in the future related to the MSHA CPDM rule?

A. Yes. [redacted] has notified Petitioner that it estimates the 2024 CPDM cost to be [redacted] per ton.

COAL SUPPLY PLAN

Q. Please summarize CEI South's 2024 coal supply to include delivery options with [redacted].

A. CEI South entered 2024 with 345,784 tons of coal in inventory. For 2024, CEI South has in place coal deliveries priced under one contract previously reviewed by the Commission. Because CEI South negotiated the ability to adjust the contract amount in any given year, CEI South can reduce the total 2024 specified contract volume of [redacted] tons to a 2024 firm commitment of [redacted] tons or increase the 2024 firm commitment to [redacted] tons. The table below shows the individual contracts and the [redacted] associated with each.

2024 Contract4	Contracted Volume	[redacted]	[redacted]
[redacted] Contract #2	[redacted]	[redacted]	[redacted]

The following table shows the individual contract and the [redacted] that can be exercised.

2024 Contracts	Contracted Volume	[redacted]	[redacted]
[redacted] Contract #2	[redacted]	[redacted]	[redacted]

The [redacted] must be decided by [redacted] of the year prior to the actual year the coal is taken or, in this case, by [redacted], for coal to be taken in 2024. [redacted]; therefore, CEI South decided to exercise the [redacted] to decrease the contract volume by [redacted].

[redacted] must be decided [redacted] before the beginning of each calendar quarter. CEI South did not choose to exercise the first [redacted] 2024 [redacted] to adjust the contract the [redacted] by [redacted]. For the second 2024 [redacted], CEI South chose to decrease the contract by [redacted]. CEI South will most likely choose to exercise the third and fourth 2024 [redacted] to decrease the contract [redacted] by [redacted].

Q. Was all 2023 contracted coal delivered in 2023?

A. Yes. To manage the 2023 inventory levels, CEI South and [redacted] agreed that [redacted] will deliver [redacted] tons in 2023 and [redacted] 2023 [redacted]. The following table shows the 2023 coal from [redacted], the [redacted] shortfall from 2022 that was in 2023 as well as the year-end [redacted] purchase to balance the inventory, totaling [redacted] tons.

2023 Total Volume	[redacted]
[redacted] Contract #1	[redacted]
[redacted] Contract #2[2]	[redacted]
[redacted] 2022 [redacted][3]	[redacted]
[redacted][4]	[redacted]
Total 2023 Delivery Volume	[redacted]

Q. Please explain how the [redacted] 2022 [redacted] tons [redacted] will be addressed.

A. CEI South and [redacted] have agreed to forego [redacted] tons of the 2022 [redacted] tonnage. The remaining 2022 [redacted] is planned to be taken in 2024 (please see following table).

[redacted] Contract #2 includes tonnage for F.B. Culley and Warrick Unit 4

[3] Both CEI South and [redacted] agreed to forego the remaining [redacted] tons of the [redacted]-ton contract.

[4] CEI South purchased coal at yearend from [redacted] for remaining tonnage needed for operation; however, the parties agreed that CEI South will replace the purchased coal in 2024 which was completed in the first quarter of 2024.

2022 [redacted]	
2022 [redacted]	[redacted]
2022 [redacted]	[redacted]
Total 2022 [redacted]	[redacted]

Q. **What is the projected coal burn and the projected year-end inventory in 2024?**

A. The following table shows the 2024 beginning inventory, planned deliveries, total inventory, projected coal burn, and projected year-end inventory.

Beginning Inventory	345,784
Planned Deliveries	[redacted]
Actual Burn	[redacted]
Year-end Inventory	[redacted]

Q. **Is this an adequate inventory level at the end of 2024?**

A. Yes. The 2024 year-end inventory of [redacted] tons is above the upper target range for F.B. Culley Units 2 and 3 being the only coal burning units in 2024 in CEI South's fleet and is above Culley's maximum pile inventory limit.

Q. **How does CEI South plan to manage such a high coal inventory 2024 with only Culley Units 2 and 3 operating?**

A. CEI South will most likely lower remaining contract quarterly volumes. If inventory levels turn out to be more than can be stored at Culley, there are a few options that can be explored. They include: (a) keep the currently Brown coal inventory until 2025; (b) work with supplier to reduce committed volume or defer some of the 2024 coal into 2025; or (c) as the 2024 coal is currently priced well below market, CEI South could look for an opportunity to sell the excess coal at a higher price.

Q. **Please provide an update to the 2025 coal plan.**

A. The following table shows the 2025 starting inventory, planned contractual deliveries, projected coal burn, total available inventory, and projected ending inventory in 2024 – making the 2025 year-end inventory manageable.

2024 Ending Inventory	[redacted]
2025 Projected Contractual Deliveries[5]	[redacted]
2025 Projected Coal Burn	[redacted]
2025 Projected Year-end Inventory	[redacted]

Q. Does CEI South have opportunities to re-negotiate its contract prices over the next several years?

A. Yes, CEI South's remaining coal contract contains contractual re-opener language signified by "Price Re-opener" set forth below. The next price reopener for Contract #2 is currently planned for 2024 to re-price years 2025-2027.

Contract	Tons	2025	2026	2027
Contract #2	[redacted]	Year 1 Price Reopener	Year 2	Year 3

TROY SOLAR PROJECT

Q. Please provide an update on the 50MW Troy Solar project.

A. Production for the Reconciliation Period from the Troy Solar field was 10,816 MWh. Production estimates for this FAC period are included on Petitioner's Exh. 2, Attachment BKA-2, Schedule 1, Line 4, under "Solar Generation."

NATURAL GAS PROCUREMENT FOR OPERATIONS OF PEAKING UNITS

Q. Please describe the hedging products that CEI South procured during the Reconciliation period.

A. CEI South's reconciliation period gas hedging strategy included two products: baseload gas (used primarily for igniters at the coal generators) and daily delivered gas. Please see Confidential Attachment FSB-2 for detailed reconciliation period purchase information.

Baseload fixed purchases for the reconciliation period totaled [redacted] dth at a weighted average price of [redacted]/dth. Spot market purchases for the period totaled

5 CEI South has the option to exercise the [redacted] Contract #2 volume [redacted] as well as to exercise [redacted].

[redacted] dth at a weighted average price of [redacted]/dth. Total purchases were [redacted] dth at a weighted average price of [redacted]/dth. Total gas consumption by the combustion turbines for the reconciliation period was approximately [redacted] dth, with the difference between total usage and purchases withdrawn from storage. The dollar cost averaging of the baseload purchases with spot purchases was beneficial to CEI South during the reconciliation period.

Q. What impact did the winter storm in mid-January 2024 have on CEI South's generating units' consumption of natural gas?

A. Consumption of natural gas by the natural gas combustion turbines at A.B. Brown was near historical daily peak demand during the period of January 14 – January 15.

Q. Did CEI South's Gas Supply group experience any gas procurement issues due to the mid-January 2024 winter storm?

A. Yes. When soliciting for additional supply in the market, suppliers were reluctant to transact since there were constraints on Texas Gas Supply, which led to CEI South Gas procurement issues.

Q. Did CEI South's Gas Transportation group issue penalties to CEI South due to under nomination?

A. Yes. As a result of the temperature forecast for January 13 - January 17, CEI South Gas Transportation group issued an Operational Flow Order ("OFO") for the entire period. CEI South Electric was issued penalties as a result of under nomination during the January 13 - January 17 OFO period.

Q. Please explain why CEI South Gas would collect penalties from CEI South Electric?

A. CEI South Electric is a transportation customer on the CEI South Gas distribution system and therefore subject to the tariff rules and regulations just the same as all other gas transportation customers delivering gas to the CEI South gas distribution system.

Q. How are these penalties being treated by CEI South Gas?

A. CEI South Gas will treat the assessed penalties as a passthrough in the normal process of their GCA. No net income impact will be realized, but rather a credit, or reduction of gas costs for the CEI South Gas customers.

CONFIDENTIALITY

Q. What portions of this testimony is CEI South requesting to be treated as confidential information?

A. CEI South's confidentiality request relates to the pricing for winter gas procurement, [redacted] with some coal supply contracts as well as other contractual terms, re-pricing of coal contracts and other concessions, tonnage figures calculated using such optionality, and other details related to costs ("Confidential Provisions"). Confidentiality also relates to rail transportation rates, fuel surcharges, competitive bids, and minimum requirements.

Q. Why has CEI South requested that such information be treated as confidential?

A. These Confidential Provisions of the testimony contain pricing for winter gas procurement and [redacted] and other confidential terms that were negotiated between CEI South and its natural gas and coal suppliers. If the pricing and optionality became generally known or readily ascertainable to the other parties with whom CEI South is negotiating or to other utilities with whom CEI South would compete, this knowledge would provide considerable economic value to such parties. In effect, knowledge of pricing and optionality provisions by other suppliers would establish a floor in future negotiations, thereby limiting the potential terms and benefits that could accrue to ratepayers, shareholders, and CEI South. Knowledge of the pricing and optionality provisions by potential coal suppliers could enable them to gain an unfair advantage in future competitive situations and negotiate a lower price and optionality provision than would otherwise be possible. The lower optionality provisions would diminish the flexibility available to CEI South's operations to the disadvantage of CEI South and its customers. Further, disclosure of the coal suppliers' optionality provisions would be of significant value to the coal suppliers' competitors, which could prove harmful to the coal suppliers. In addition, CEI South requests that coal transportation rates, competitive bids, and contract terms remain confidential to protect supplier's confidential information as well as the economic value competitive parties could gain from this information in an open energy market. CEI South is requesting that, pursuant to Indiana Code § 5-14-3-4(a)(4), the Commission find that the Confidential Provisions of the Contract contain "trade secrets" as that term is defined in Indiana Code § 24-2-3-2 and are thereby exempt from public access.

Q. Has CEI South taken any steps to maintain the confidentiality of this information?

A. Yes. In accordance with Indiana Code § 24-2-3-2, the information contained in the Confidential Provisions of the testimony has been the subject of efforts that are reasonable under the circumstances to maintain its secrecy. Within CEI South, this information will be disclosed only to those people directly involved with negotiating coal supply contracts. Outside of CEI South, this information will be disclosed only to individuals who have signed a confidentiality agreement.

CONCLUSION

Q. Does this conclude your direct testimony?

A. Yes, at the present time.

VERIFICATION

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

SOUTHERN INDIANA GAS AND ELECTRIC COMPANY D/B/A CENTERPOINT ENERGY INDIANA SOUTH

F. Shane Bradford
Vice President, Power Generation Operations

May 17, 2024
Date

CENTERPOINT ENERGY INDIANA SOUTH
Determination of MISO Components of Fuel Cost
December 2023, January and February 2024

Line No.	Energy Market & ASM FAC Adjustment Components	Actual December 2023	Actual January 2024	Actual February 2024
1	Delta LMP	$ 323,725.99	$ (246,855.14)	$ 339,784.10
2	DA Virtuals Bids and Offers for Load	-	-	-
3	DA RSG 1st Pass Distribution Amount	9,550.34	14,498.71	5,950.11
4	DA RSG Make Whole Payment	-	-	-
5	DA Regulation Amount	(1,911.44)	(1,044.16)	(136.34)
6	DA Spinning Reserve Amount	(13,038.64)	(2,623.40)	(2,466.50)
7	DA Supplemental Reserve Amount	-	(1.09)	-
8	DA Ramp Capability Amount	(218.69)	(238.77)	-
9	DA Short-Term Reserve Amount	(633.82)	(6,078.12)	(154.59)
10	RT Marg. Loss Surplus Credit	(73,283.71)	(136,859.70)	(54,843.23)
11	RT Virtuals Bids and Offers for Load	-	-	-
12	RT RSG 1st Pass Distribution Amount	3,155.84	49,076.42	(473.04)
13	RT RSG Make Whole Payment Amount	(3,695.67)	(48,902.95)	(4,182.99)
14	RT Price Volatility Make Whole Payment Amount	(12,171.38)	(9,231.14)	(24,617.08)
15	RT Net Inadvertent Energy	(8,703.56)	(2,377.16)	6,694.36
16	RT Revenue from Uninstructed Deviation	-	-	-
17	RT Uninstructed Deviation	-	-	-
18	RT Demand Response Allocation Uplift Charge	(7,771.84)	-	1.05
19	RT Regulation Amount	(184.26)	(6,965.60)	(3,838.52)
20	RT Spinning Reserve Amount	(2,465.64)	(6,775.62)	(7,113.20)
21	RT Supplemental Reserve Amount	(0.15)	(42.83)	-
22	RT Regulation Cost Distribution Amount	11,384.71	7,536.30	12,144.85
23	RT Spinning Reserve Cost Distribution Amount	11,661.39	10,835.23	8,889.70
24	RT Supplemental Reserve Cost Distribution Amount	1,002.25	2,028.25	1,176.87
25	RT Excessive Deficient Energy Deployment Charge Amount	1,937.95	8,059.51	1,504.47
26	RT Contingency Reserve Deployment Failure Charge Amount	-	-	-
27	RT Net Regulation Adjustment Amount	5.58	(774.92)	(15.57)
28	RT Ramp Capability Amount	(283.95)	(1,251.33)	(1,884.17)
29	RT Short-Tem Reserve Amount	7.13	(7,186.40)	(262.31)
30	Short-Term Reserve Cost Distribution Amount	2,681.28	49,839.31	2,716.97
31	Short-Term Reserve Deployment Failure Charge Amount			
32	FTR (Revenue) / Expenses	9,157.47	328.59	17,136.37
33	ARR (Revenue) / Expenses	(47,548.75)	(47,548.75)	(47,548.75)
34	Subtotal	202,358.43	(382,554.76)	248,462.56
35	Plus: Residual Load Adjustment Volume Changes			
36	Plus: MISO Charges (above) on sales billed to IMPA	-	-	-
37	Total (To BKA-2, Sch 5, line 23)	$ 202,358.43	$ (382,554.76)	$ 248,462.56

Negative amount is a credit to expense (payment from MISO)
Positive amount is a debit to expense (payment to MISO)

CENTERPOINT ENERGY INDIANA SOUTH
Calculation of Daily Benchmark
Based on NYMEX Henry Hub Day Ahead Natural Gas Price

December 2023

Date	Day Ahead Cost $/MMBtu	Transportation $/MMBtu	Allowed Gas Price $/MMBtu	Heat Rate Btu/kWh	Daily Benchmark $/MWh
12/01/23	2.765	0.60	3.37	12,500	42.06
12/02/23	2.585	0.60	3.19	12,500	39.81
12/03/23	2.585	0.60	3.19	12,500	39.81
12/04/23	2.585	0.60	3.19	12,500	39.81
12/05/23	2.545	0.60	3.15	12,500	39.31
12/06/23	2.730	0.60	3.33	12,500	41.63
12/07/23	2.730	0.60	3.33	12,500	41.63
12/08/23	2.520	0.60	3.12	12,500	39.00
12/09/23	2.575	0.60	3.18	12,500	39.69
12/10/23	2.575	0.60	3.18	12,500	39.69
12/11/23	2.575	0.60	3.18	12,500	39.69
12/12/23	2.380	0.60	2.98	12,500	37.25
12/13/23	2.375	0.60	2.98	12,500	37.19
12/14/23	2.330	0.60	2.93	12,500	36.63
12/15/23	2.380	0.60	2.98	12,500	37.25
12/16/23	2.435	0.60	3.04	12,500	37.94
12/17/23	2.435	0.60	3.04	12,500	37.94
12/18/23	2.435	0.60	3.04	12,500	37.94
12/19/23	2.585	0.60	3.19	12,500	39.81
12/20/23	2.450	0.60	3.05	12,500	38.13
12/21/23	2.485	0.60	3.09	12,500	38.56
12/22/23	2.475	0.60	3.08	12,500	38.44
12/23/23	2.495	0.60	3.10	12,500	38.69
12/24/23	2.495	0.60	3.10	12,500	38.69
12/25/23	2.495	0.60	3.10	12,500	38.69
12/26/23	2.495	0.60	3.10	12,500	38.69
12/27/23	2.480	0.60	3.08	12,500	38.50
12/28/23	2.625	0.60	3.23	12,500	40.31
12/29/23	2.550	0.60	3.15	12,500	39.38
12/30/23	2.550	0.60	3.15	12,500	39.38
12/31/23	2.550	0.60	3.15	12,500	39.38

January 2024

Date	Day Ahead Cost $/MMBtu	Transportation $/MMBtu	Allowed Gas Price $/MMBtu	Heat Rate Btu/kWh	Daily Benchmark $/MWh
01/01/24	2.560	0.60	3.16	12,500	39.50
01/02/24	2.560	0.60	3.16	12,500	39.50
01/03/24	2.560	0.60	3.16	12,500	39.50
01/04/24	2.595	0.60	3.20	12,500	39.94
01/05/24	2.845	0.60	3.45	12,500	43.06
01/06/24	2.745	0.60	3.35	12,500	41.81
01/07/24	2.745	0.60	3.35	12,500	41.81
01/08/24	2.745	0.60	3.35	12,500	41.81
01/09/24	2.740	0.60	3.34	12,500	41.75
01/10/24	3.290	0.60	3.89	12,500	48.63
01/11/24	3.225	0.60	3.83	12,500	47.81
01/12/24	3.130	0.60	3.73	12,500	46.63
01/13/24	12.970	0.60	13.57	12,500	169.63
01/14/24	12.970	0.60	13.57	12,500	169.63
01/15/24	12.970	0.60	13.57	12,500	169.63
01/16/24	12.970	0.60	13.57	12,500	169.63
01/17/24	4.145	0.60	4.75	12,500	59.31
01/18/24	2.870	0.60	3.47	12,500	43.38
01/19/24	2.885	0.60	3.49	12,500	43.56
01/20/24	2.665	0.60	3.27	12,500	40.81
01/21/24	2.665	0.60	3.27	12,500	40.81
01/22/24	2.665	0.60	3.27	12,500	40.81
01/23/24	2.330	0.60	2.93	12,500	36.63
01/24/24	2.155	0.60	2.76	12,500	34.44
01/25/24	2.435	0.60	3.04	12,500	37.94
01/26/24	2.550	0.60	3.15	12,500	39.38
01/27/24	2.380	0.60	2.98	12,500	37.25
01/28/24	2.380	0.60	2.98	12,500	37.25
01/29/24	2.380	0.60	2.98	12,500	37.25
01/30/24	2.435	0.60	3.04	12,500	37.94
01/31/24	2.265	0.60	2.87	12,500	35.81

February 2024

Date	Day Ahead Cost $/MMBtu	Transportation $/MMBtu	Allowed Gas Price $/MMBtu	Heat Rate Btu/kWh	Daily Benchmark $/MWh
02/01/24	2.230	0.60	2.83	12,500	35.38
02/02/24	2.135	0.60	2.74	12,500	34.19
02/03/24	2.035	0.60	2.64	12,500	32.94
02/04/24	2.035	0.60	2.64	12,500	32.94
02/05/24	2.035	0.60	2.64	12,500	32.94
02/06/24	2.115	0.60	2.72	12,500	33.94
02/07/24	2.090	0.60	2.69	12,500	33.63
02/08/24	1.970	0.60	2.57	12,500	32.13
02/09/24	1.730	0.60	2.33	12,500	29.13
02/10/24	1.725	0.60	2.33	12,500	29.06
02/11/24	1.725	0.60	2.33	12,500	29.06
02/12/24	1.725	0.60	2.33	12,500	29.06
02/13/24	1.785	0.60	2.39	12,500	29.81
02/14/24	1.665	0.60	2.27	12,500	28.31
02/15/24	1.510	0.60	2.11	12,500	26.38
02/16/24	1.515	0.60	2.12	12,500	26.44
02/17/24	1.545	0.60	2.15	12,500	26.81
02/18/24	1.545	0.60	2.15	12,500	26.81
02/19/24	1.545	0.60	2.15	12,500	26.81
02/20/24	1.545	0.60	2.15	12,500	26.81
02/21/24	1.505	0.60	2.11	12,500	26.31
02/22/24	1.600	0.60	2.20	12,500	27.50
02/23/24	1.605	0.60	2.21	12,500	27.56
02/24/24	1.520	0.60	2.12	12,500	26.50
02/25/24	1.520	0.60	2.12	12,500	26.50
02/26/24	1.520	0.60	2.12	12,500	26.50
02/27/24	1.595	0.60	2.20	12,500	27.44
02/28/24	1.530	0.60	2.13	12,500	26.63
02/29/24	1.630	0.60	2.23	12,500	27.88

Total (To BKA-2, Sch 5, line 21)

CenterPoint Energy Indiana - South
Market Settlements Group
Purchased Power Over Benchmark Explanations - December - Cause No. 38708 FAC 143

S55's through 12/31

Jan Benchmark Costs	Trade Date	HE	Cost of Purchased Power	Purchases Volume	Price	Purchases Volume @ Benchmark $	Amount Over Benchmark $	Reason for Purchasing Power	Available Capacity of Units Not Selected	MISO Economic Dispatch / Purchased MWs above Capacity	Purchase Power Costs at Risk	Test for Outages and Derates: MWs Out of Service	Test for Outages and Derates: 11% of Summer Rated Capacity	Test for Outages and Derates: Are Unit MWs Out of Service > 11% Summer Capacity?	Test for Outages and Derates: Recoverable @ 0%, 85%, or 100%	MWs Subject to 85%-15%	Over Benchmark Price	Total Unrecoverable Dollars
39.81	Dec 4	9	$ 517.64	9.970	$ 51.92	$ 396.94	$ 120.70	Brown 3 and Brown 4 were on Reserve Shutdown	174	-	$ -	-	78.54	N/A	N/A	-	$ 12.11	$ -
39.81		11	$ 140.85	3.000	$ 46.95	$ 119.44	$ 21.41		174	-	$ -	-	78.54	N/A	N/A	-	$ 7.14	$ -
39.81		13	$ 832.64	16.000	$ 52.04	$ 637.01	$ 195.63		174	-	$ -	-	78.54	N/A	N/A	-	$ 12.23	$ -
39.81		21	$ 1,100.33	16.730	$ 65.77	$ 666.07	$ 434.26		174	-	$ -	-	78.54	N/A	N/A	-	$ 25.96	$ -
39.31	Dec 5	9	$ 22.09	0.500	$ 44.18	$ 19.66	$ 2.43	Brown 3 and Brown 4 were on Reserve Shutdown	174	-	$ -	-	78.54	N/A	N/A	-	$ 4.87	$ -
41.63	Dec 6	8	$ 223.07	3.770	$ 59.17	$ 156.93	$ 66.14	Brown 3 and Brown 4 were on Reserve Shutdown	174	-	$ -	-	78.54	N/A	N/A	-	$ 17.54	$ -
41.63		9	$ 659.77	14.900	$ 44.28	$ 620.21	$ 39.56		174	-	$ -	-	78.54	N/A	N/A	-	$ 2.65	$ -
41.63		18	$ 933.50	18.700	$ 49.92	$ 778.39	$ 155.11		174	-	$ -	-	78.54	N/A	N/A	-	$ 8.29	$ -
41.63		19	$ 1,031.94	23.200	$ 44.48	$ 965.70	$ 66.24		174	-	$ -	-	78.54	N/A	N/A	-	$ 2.86	$ -
41.63		20	$ 27.67	0.530	$ 52.21	$ 22.06	$ 5.61		174	-	$ -	-	78.54	N/A	N/A	-	$ 10.58	$ -
41.63	Dec 7	8	$ 1,956.46	31.880	$ 61.37	$ 1,327.01	$ 629.46	Brown 3 and Brown 4 were on Reserve Shutdown	174	-	$ -	-	78.54	N/A	N/A	-	$ 19.74	$ -
39.69	Dec 10	18	$ 6,997.88	139.780	$ 50.06	$ 5,547.59	$ 1,450.29	Warrick 4 was on outage, Brown 3 and Brown 4 were on Reserve Shutdown	87	52.78	$ 547.62	150	78.54	YES	100	-	$ 10.38	$ -
39.69		19	$ 5,409.15	119.460	$ 45.28	$ 4,741.13	$ 668.02		87	32.46	$ 181.52	150	78.54	YES	100	-	$ 5.59	$ -
39.69	Dec 11	7	$ 6,708.98	166.600	$ 40.27	$ 6,612.02	$ 96.96	Warrick 4 and Brown 3 were on outage, Brown 4 was on Reserve Shutdown	87	79.60	$ 46.33	237	78.54	YES	100	-	$ 0.58	$ -
39.69		8	$ 13,571.10	236.200	$ 57.46	$ 9,374.31	$ 4,196.79		87	149.20	$ 2,650.98	237	78.54	YES	100	-	$ 17.77	$ -
39.69		9	$ 10,707.55	236.500	$ 45.28	$ 9,386.21	$ 1,321.34		87	149.50	$ 835.26	237	78.54	YES	100	-	$ 5.59	$ -
39.69		11	$ 74.79	1.510	$ 49.53	$ 59.93	$ 14.86		87	-	$ -	237	78.54	YES	100	-	$ 9.84	$ -
39.69		18	$ 7,768.68	169.400	$ 45.86	$ 6,723.15	$ 1,045.53		87	82.40	$ 508.57	237	78.54	YES	100	-	$ 6.17	$ -
39.69		19	$ 7,759.83	186.400	$ 41.63	$ 7,397.84	$ 361.99		87	99.40	$ 193.03	237	78.54	YES	100	-	$ 1.94	$ -
37.25	Dec 12	7	$ 6,138.28	151.600	$ 40.49	$ 5,647.10	$ 491.18	Warrick 4 and Brown 3 were on outage, Brown 4 was on Reserve Shutdown	87	64.60	$ 209.30	237	78.54	YES	100	-	$ 3.24	$ -
37.25		8	$ 8,544.55	163.720	$ 52.19	$ 6,098.57	$ 2,445.98		87	76.72	$ 1,146.20	237	78.54	YES	100	-	$ 14.94	$ -
37.25		9	$ 6,713.20	167.830	$ 40.00	$ 6,251.67	$ 461.53		87	80.83	$ 222.28	237	78.54	YES	100	-	$ 2.75	$ -
37.25		18	$ 7,255.93	144.800	$ 50.11	$ 5,393.80	$ 1,862.13		87	57.80	$ 743.31	237	78.54	YES	100	-	$ 12.86	$ -
37.25		19	$ 6,722.92	158.410	$ 42.44	$ 5,900.77	$ 822.15		87	71.41	$ 370.62	237	78.54	YES	100	-	$ 5.19	$ -
37.25		20	$ 5,821.57	156.200	$ 37.27	$ 5,818.45	$ 3.12		87	69.20	$ 1.38	237	78.54	YES	100	-	$ 0.02	$ -
37.19	Dec 13	8	$ 9,127.83	168.100	$ 54.30	$ 6,251.30	$ 2,876.53	Warrick 4 and Brown 3 were on outage, Brown 4 was on Reserve Shutdown	87	81.10	$ 1,387.78	237	78.54	YES	100	-	$ 17.11	$ -
37.19		9	$ 7,237.40	167.300	$ 43.26	$ 6,221.55	$ 1,015.85		87	80.30	$ 487.58	237	78.54	YES	100	-	$ 6.07	$ -
37.19		18	$ 5,733.53	140.700	$ 40.75	$ 5,232.35	$ 501.18		87	53.70	$ 191.28	237	78.54	YES	100	-	$ 3.56	$ -
37.19		19	$ 1,968.50	10.530	$ 186.94	$ 391.59	$ 1,576.91		87	-	$ -	237	78.54	YES	100	-	$ 149.75	$ -
36.63	Dec 14	1	$ 2,048.22	17.270	$ 118.60	$ 632.51	$ 1,415.71	Warrick 4 and Brown 3 were on outage, Brown 4 was on Reserve Shutdown	87	-	$ -	237	78.54	YES	100	-	$ 81.97	$ -
36.63		7	$ 92.98	2.240	$ 41.51	$ 82.04	$ 10.94		87	-	$ -	237	78.54	YES	100	-	$ 4.88	$ -
36.63		8	$ 8,481.09	179.380	$ 47.28	$ 6,569.79	$ 1,911.30		87	92.38	$ 984.31	237	78.54	YES	100	-	$ 10.66	$ -
36.63		17	$ 9,358.09	66.920	$ 139.84	$ 2,450.95	$ 6,907.15		87	-	$ -	237	78.54	YES	100	-	$ 103.21	$ -
37.25	Dec 15	8	$ 6,899.80	185.130	$ 37.27	$ 6,896.09	$ 3.71	Warrick 4 and Brown 3 were on outage, Brown 4 was on Reserve Shutdown	87	98.13	$ 1.97	237	78.54	YES	100	-	$ 0.02	$ -
37.94	Dec 17	19	$ 688.24	16.620	$ 41.41	$ 630.53	$ 57.71	Warrick 4 was on outage	174	-	$ -	150	78.54	YES	100	-	$ 3.47	$ -
37.94	Dec 18	18	$ 4,296.33	83.230	$ 51.62	$ 3,157.58	$ 1,138.75	Brown 3 and Brown 4 were on Reserve Shutdown	174	-	$ -	-	78.54	N/A	N/A	-	$ 13.68	$ -
37.94		19	$ 1,920.03	41.550	$ 46.21	$ 1,576.32	$ 343.71		174	-	$ -	-	78.54	N/A	N/A	-	$ 8.27	$ -
37.94		20	$ 1,205.40	30.150	$ 39.98	$ 1,143.83	$ 61.57		174	-	$ -	-	78.54	N/A	N/A	-	$ 2.04	$ -
39.81	Dec 19	7	$ 2,293.98	51.000	$ 44.98	$ 2,030.46	$ 263.52	Brown 3 was on outage and Brown 4 was on Reserve Shutdown	174	-	$ -	-	78.54	N/A	N/A	-	$ 5.17	$ -
39.81		8	$ 5,768.48	93.100	$ 61.96	$ 3,706.59	$ 2,061.89		174	-	$ -	-	78.54	N/A	N/A	-	$ 22.15	$ -
39.81		9	$ 4,488.65	91.400	$ 49.11	$ 3,638.91	$ 849.74		174	-	$ -	-	78.54	N/A	N/A	-	$ 9.30	$ -
39.81		10	$ 3,029.72	72.900	$ 41.56	$ 2,902.37	$ 127.35		174	-	$ -	-	78.54	N/A	N/A	-	$ 1.75	$ -
39.81		18	$ 2,434.35	52.120	$ 46.71	$ 2,075.05	$ 359.30		87	-	$ -	87	78.54	YES	100	-	$ 6.89	$ -
38.13	Dec 20	7	$ 360.15	8.930	$ 40.33	$ 340.46	$ 19.69	Brown 3 was on outage and Brown 4 was on Reserve Shutdown	87	-	$ -	87	78.54	YES	100	-	$ 2.21	$ -
38.13		8	$ 1,542.71	27.170	$ 56.78	$ 1,035.86	$ 506.85		87	-	$ -	87	78.54	YES	100	-	$ 18.65	$ -
38.13		9	$ 1,522.47	35.630	$ 42.73	$ 1,358.39	$ 164.08		87	-	$ -	87	78.54	YES	100	-	$ 4.61	$ -

CenterPoint Energy Indiana - South
Market Settlements Group
Purchased Power Over Benchmark Explanations - December - Cause No. 38708 FAC 143

S55's through 12/31

												Test for Outages and Derates							
Jan Benchmark Costs	**Trade Date**	**HE**	**Cost of Purchased Power**	**Purchases Volume**	**Price**	**Purchases Volume @ Benchmark $**	**Amount Over Benchmark $**	**Reason for Purchasing Power**	**Available Capacity of Units Not Selected**	**MISO Economic Dispatch / Purchased MWs above Capacity**	**Purchase Power Costs at Risk**	**MWs Out of Service**	**11% of Summer Rated Capacity**	**Are Unit MWs Out of Service > 11% Summer Capacity?**	**Recoverable @ 0%, 85%, or 100%**	**MWs Subject to 85%-15%**	**Over Benchmark Price**	**Total Unrecoverable Dollars**
38.56		8	$ 2,353.60	57.140	$ 41.19	$ 2,203.49	$ 150.11		87	-	$ -	87	78.54	YES	100	-	$ 2.63	$ -
38.56	Dec 21	9	$ 344.91	5.900	$ 58.46	$ 227.52	$ 117.39	*Brown 3 was on outage and Brown 4 was on Reserve Shutdown*	87	-	$ -	87	78.54	YES	100	-	$ 19.90	$ -
38.56		13	$ 943.40	21.200	$ 44.50	$ 817.54	$ 125.86		87	-	$ -	87	78.54	YES	100	-	$ 5.94	$ -
38.44	Dec 22	9	$ 9,596.27	61.150	$ 156.93	$ 2,350.48	$ 7,245.79	*Warrick 4 was on outage*	174	-	$ -	150	78.54	YES	100	-	$ 118.49	$ -
38.69	Dec 26	18	$ 974.26	24.860	$ 39.19	$ 961.78	$ 12.48	*Culley 2 was on outage*	174	-	$ -	90	78.54	YES	100	-	$ 0.50	$ -
39.38	Dec 31	18	$ 555.80	13.710	$ 40.54	$ 539.83	$ 15.97	*Culley 2, Brown 3, and Brown 4 were on Reserve Shutdown*	264	-	$ -	-	78.54	N/A	N/A	-	$ 1.16	$ -
Total			**$ 202,906.56**	**4,062.920**		**$ 156,087.12**	**$ 46,819.44**		**6,528.000**	**1,471.510**	**$ 10,709.33**	**6,276.000**				**-**		**$ -**

CenterPoint Energy Indiana - South
Market Settlements Group
Purchased Power Over Benchmark Explanations - January - Cause No. 38708 FAC 143

S55's through 11/30

Jan Benchmark Costs	Trade Date	HE	Cost of Purchased Power	Purchases Volume	Price	Purchases Volume @ Benchmark $	Amount Over Benchmark $	Reason for Purchasing Power	Available Capacity of Units Not Selected	MISO Economic Dispatch / Purchased MWs above Capacity	Purchase Power Costs at Risk	Test for Outages and Derates: MWs Out of Service	Test for Outages and Derates: 11% of Summer Rated Capacity	Test for Outages and Derates: Are Unit MWs Out of Service > 11% Summer Capacity?	Recoverable @ 0%, 85%, or 100%	MWs Subject to 85%	Over Benchmark Price	Total Unrecoverable Dollars
39.50		7	$ 746.45	18.390	$ 40.59	$ 726.41	$ 20.05		174	-	$ -	-	62.04	N/A	N/A	-	$ 1.09	$ -
39.50		8	$ 8,354.06	194.100	$ 43.04	$ 7,666.95	$ 687.11		-	194.10	$ 687.11	-	62.04	N/A	N/A	194.10	$ 3.54	$ 103.07
39.50		9	$ 6,416.65	157.890	$ 40.64	$ 6,236.66	$ 180.00		-	157.89	$ 180.00	-	62.04	N/A	N/A	157.89	$ 1.14	$ 27.00
39.50	Jan 3	18	$ 6,235.79	155.700	$ 40.05	$ 6,150.15	$ 85.64	*Brown 3 and Brown 4 were on Reserve Shutdown*	174	-	$ -	-	62.04	N/A	N/A	-	$ 0.55	$ -
39.50		19	$ 275.19	4.700	$ 58.55	$ 185.65	$ 89.54		174	-	$ -	-	62.04	N/A	N/A	-	$ 19.05	$ -
39.50		20	$ 396.92	9.400	$ 42.23	$ 371.30	$ 25.62		174	-	$ -	-	62.04	N/A	N/A	-	$ 2.73	$ -
39.50		21	$ 1,345.62	24.230	$ 55.54	$ 957.09	$ 388.54		174	-	$ -	-	62.04	N/A	N/A	-	$ 16.04	$ -
39.94		1	$ 4,851.63	104.900	$ 46.25	$ 4,189.50	$ 662.13		174	-	$ -	90	62.04	YES	100	-	$ 6.31	$ -
39.94		8	$ 8,389.41	163.600	$ 51.28	$ 6,533.86	$ 1,855.55		-	163.60	$ 1,855.55	90	62.04	YES	100	73.60	$ 11.34	$ 125.22
39.94		9	$ 7,750.70	173.200	$ 44.75	$ 6,917.26	$ 833.44		-	173.20	$ 833.44	90	62.04	YES	100	83.20	$ 4.81	$ 60.05
39.94		17	$ 3,733.29	81.000	$ 46.09	$ 3,234.98	$ 498.31		174	-	$ -	90	62.04	YES	100	-	$ 6.15	$ -
39.94	Jan 4	18	$ 20,954.87	255.670	$ 81.96	$ 10,210.95	$ 10,743.92	*Brown 3 and Brown 4 were on Reserve Shutdown, Culley 2 was on outage*	174	81.67	$ 3,431.99	90	62.04	YES	100	-	$ 42.02	$ -
39.94		19	$ 12,618.71	273.590	$ 46.12	$ 10,926.64	$ 1,692.07		174	99.59	$ 615.93	90	62.04	YES	100	9.59	$ 6.18	$ 8.90
39.94		20	$ 4,428.10	97.600	$ 45.37	$ 3,897.95	$ 530.15		174	-	$ -	90	62.04	YES	100	-	$ 5.43	$ -
39.94		21	$ 6,106.29	105.390	$ 57.94	$ 4,209.07	$ 1,897.22		174	-	$ -	90	62.04	YES	100	-	$ 18.00	$ -
39.94		22	$ 4,612.71	101.130	$ 45.61	$ 4,038.93	$ 573.78		174	-	$ -	90	62.04	YES	100	-	$ 5.67	$ -
39.94		24	$ 18,621.89	105.950	$ 175.76	$ 4,231.43	$ 14,390.46		174	-	$ -	90	62.04	YES	100	-	$ 135.82	$ -
43.06		8	$ 10,692.67	203.360	$ 52.58	$ 8,757.29	$ 1,935.38		-	203.36	$ 1,935.38	90	62.04	YES	100	113.36	$ 9.52	$ 161.83
43.06	Jan 05	9	$ 9,765.76	219.900	$ 44.41	$ 9,469.55	$ 296.21	*Brown 3 and Brown 4 were on Reserve Shutdown, Culley 2 was on outage*	-	219.90	$ 296.21	90	62.04	YES	100	129.90	$ 1.35	$ 26.25
43.06		11	$ 1,309.25	30.070	$ 43.54	$ 1,294.90	$ 14.35		87	-	$ -	90	62.04	YES	100	-	$ 0.48	$ -
43.06		17	$ 2,969.53	59.920	$ 49.56	$ 2,580.33	$ 389.20		174	-	$ -	90	62.04	YES	100	-	$ 6.50	$ -
41.81		12	$ 11,207.57	144.680	$ 77.46	$ 6,049.50	$ 5,158.07	*Brown 3 and Brown 4 were on Reserve Shutdown*	174	-	$ -	90	62.04	YES	100	-	$ 35.65	$ -
41.81	Jan 6	18	$ 3,763.88	87.900	$ 42.82	$ 3,675.36	$ 88.52		174	-	$ -	-	62.04	N/A	N/A	-	$ 1.01	$ -
41.81		19	$ 9,060.42	83.300	$ 108.77	$ 3,483.02	$ 5,577.40		174	-	$ -	-	62.04	N/A	N/A	-	$ 66.96	$ -
																-		
41.81		13	$ 1,788.26	32.430	$ 55.14	$ 1,356.00	$ 432.26		174	-	$ -	-	62.04	N/A	N/A	-	$ 13.33	$ -
41.81	Jan 7	18	$ 4,317.35	91.800	$ 47.03	$ 3,838.43	$ 478.92	*Brown 3 and Brown 4 were on Reserve Shutdown*	174	-	$ -	-	62.04	N/A	N/A	-	$ 5.22	$ -
41.81		19	$ 4,482.68	104.200	$ 43.02	$ 4,356.91	$ 125.77		174	-	$ -	-	62.04	N/A	N/A	-	$ 1.21	$ -
41.81		20	$ 8,033.88	42.670	$ 188.28	$ 1,784.16	$ 6,249.72		174	-	$ -	-	62.04	N/A	N/A	-	$ 146.47	$ -
41.81	Jan 8	8	$ 9,160.74	195.200	$ 46.93	$ 8,161.90	$ 998.84	*Brown 3 and Brown 4 were on Reserve Shutdown*	174	21.20	$ 108.48	-	62.04	N/A	N/A	21.20	$ 5.12	$ 16.27
41.81		9	$ 8,323.05	196.530	$ 42.35	$ 8,217.51	$ 105.54		174	22.53	$ 12.10	-	62.04	N/A	N/A	22.53	$ 0.54	$ 1.81
48.63	Jan 10	18	$ 6,554.50	134.700	$ 48.66	$ 6,549.79	$ 4.71	*Brown 3 and Brown 4 were on Reserve Shutdown*	174	-	$ -	-	62.04	N/A	N/A	-	$ 0.03	$ -
47.81		8	$ 7,235.80	146.890	$ 49.26	$ 7,023.25	$ 212.55	*Brown 3 and Brown 4 were on Reserve Shutdown*	174	-	$ -	-	62.04	N/A	N/A	-	$ 1.45	$ -
47.81	Jan 11	18	$ 7,920.82	150.500	$ 52.63	$ 7,195.86	$ 724.96		174	-	$ -	-	62.04	N/A	N/A	-	$ 4.82	$ -
47.81		19	$ 8,550.49	171.800	$ 49.77	$ 8,214.27	$ 336.22		174	-	$ -	-	62.04	N/A	N/A	-	$ 1.96	$ -
169.63		9	$ 13,397.17	76.090	$ 176.07	$ 12,906.77	$ 490.40		-	76.09	$ 490.40	-	62.04	N/A	N/A	76.09	$ 6.45	$ 73.56
169.63	Jan 14	19	$ 15,355.47	81.160	$ 189.20	$ 13,766.77	$ 1,588.71	*All units online*	-	81.16	$ 1,588.71	-	62.04	N/A	N/A	81.16	$ 19.57	$ 238.31
169.63		20	$ 15,560.25	86.030	$ 180.87	$ 14,592.84	$ 967.41		-	86.03	$ 967.41	-	62.04	N/A	N/A	86.03	$ 11.25	$ 145.11
169.63	Jan 15	19	$ 4,614.57	20.870	$ 221.11	$ 3,540.07	$ 1,074.50	*All units online*	-	20.87	$ 1,074.50	-	62.04	N/A	N/A	20.87	$ 51.49	$ 161.17
169.63		20	$ 4,622.74	21.300	$ 217.03	$ 3,613.01	$ 1,009.73		-	21.30	$ 1,009.73	-	62.04	N/A	N/A	21.30	$ 47.41	$ 151.46
169.63		7	$ 59,944.30	274.420	$ 218.44	$ 46,548.49	$ 13,395.81		87	187.42	$ 9,148.90	-	62.04	N/A	N/A	187.42	$ 48.81	$ 1,372.34
169.63		8	$ 61,707.53	234.460	$ 263.19	$ 39,770.28	$ 21,937.25		87	147.46	$ 13,797.10	-	62.04	N/A	N/A	147.46	$ 93.57	$ 2,069.56
169.63		9	$ 46,544.79	182.150	$ 255.53	$ 30,897.19	$ 15,647.60		87	95.15	$ 8,173.86	-	62.04	N/A	N/A	95.15	$ 85.91	$ 1,226.08
169.63		10	$ 49,284.46	207.400	$ 237.63	$ 35,180.23	$ 14,104.24		-	207.40	$ 14,104.24	-	62.04	N/A	N/A	207.40	$ 68.00	$ 2,115.64
169.63		11	$ 69,372.97	305.030	$ 227.43	$ 51,740.71	$ 17,632.26		87	218.03	$ 12,603.22	-	62.04	N/A	N/A	218.03	$ 57.80	$ 1,890.48
169.63		12	$ 69,021.32	319.780	$ 215.84	$ 54,242.68	$ 14,778.64		174	145.78	$ 6,737.22	-	62.04	N/A	N/A	145.78	$ 46.22	$ 1,010.58
169.63		13	$ 55,131.44	280.710	$ 196.40	$ 47,615.43	$ 7,516.01	*Brown 3 and Brown 4 were on Reserve Shutdown. Culley units online*	174	106.71	$ 2,857.16	-	62.04	N/A	N/A	106.71	$ 26.77	$ 428.57
169.63	Jan 16	14	$ 45,162.50	261.070	$ 172.99	$ 44,284.00	$ 878.50		174	87.07	$ 292.99	-	62.04	N/A	N/A	87.07	$ 3.37	$ 43.95
169.63		17	$ 39,991.42	231.700	$ 172.60	$ 39,302.11	$ 689.31		174	57.70	$ 171.66	-	62.04	N/A	N/A	57.70	$ 2.97	$ 25.75
169.63		18	$ 54,462.87	260.850	$ 208.79	$ 44,246.68	$ 10,216.19		174	86.85	$ 3,401.48	-	62.04	N/A	N/A	86.85	$ 39.16	$ 510.22
169.63		19	$ 68,318.28	289.080	$ 236.33	$ 49,035.20	$ 19,283.09		174	115.08	$ 7,676.41	-	62.04	N/A	N/A	115.08	$ 66.71	$ 1,151.46
169.63		20	$ 67,683.60	290.500	$ 232.99	$ 49,276.06	$ 18,407.54		174	116.50	$ 7,382.02	-	62.04	N/A	N/A	116.50	$ 63.37	$ 1,107.30
169.63		21	$ 69,117.02	306.560	$ 225.46	$ 52,000.24	$ 17,116.78		174	132.56	$ 7,401.49	-	62.04	N/A	N/A	132.56	$ 55.84	$ 1,110.22
169.63		22	$ 73,394.25	338.550	$ 216.79	$ 57,426.54	$ 15,967.71		174	164.55	$ 7,761.00	-	62.04	N/A	N/A	164.55	$ 47.16	$ 1,164.15
169.63		23	$ 65,853.81	334.640	$ 196.79	$ 56,763.31	$ 9,090.50		174	160.64	$ 4,363.79	-	62.04	N/A	N/A	160.64	$ 27.17	$ 654.57
59.31		1	$ 25,817.69	244.370	$ 105.65	$ 14,494.32	$ 11,323.37		174	70.37	$ 3,260.73	-	62.04	N/A	N/A	70.37	$ 46.34	$ 489.11

CenterPoint Energy Indiana - South
Market Settlements Group
Purchased Power Over Benchmark Explanations - January - Cause No. 38708 FAC 143

S55's through 11/30

Jan Benchmark Costs	Trade Date	HE	Cost of Purchased Power	Purchases Volume	Price	Purchases Volume @ Benchmark $	Amount Over Benchmark $	Reason for Purchasing Power	Available Capacity of Units Not Selected	MISO Economic Dispatch / Purchased MWs above Capacity	Purchase Power Costs at Risk	Test for Outages and Derates: MWs Out of Service	Test for Outages and Derates: 11% of Summer Rated Capacity	Test for Outages and Derates: Are Unit MWs Out of Service > 11% Summer Capacity?	Recoverable @ 0%, 85%, or 100%	MWs Subject to 85%	Over Benchmark Price	Total Unrecoverable Dollars
59.31		2	$ 23,551.05	269.630	$ 87.35	$ 15,992.56	$ 7,558.49		174	95.63	$ 2,680.78	-	62.04	N/A	N/A	95.63	$ 28.03	$ 402.12
59.31		3	$ 20,232.18	263.200	$ 76.87	$ 15,611.18	$ 4,621.00		174	89.20	$ 1,566.08	-	62.04	N/A	N/A	89.20	$ 17.56	$ 234.91
59.31		4	$ 20,545.33	267.100	$ 76.92	$ 15,842.50	$ 4,702.83		174	93.10	$ 1,639.21	-	62.04	N/A	N/A	93.10	$ 17.61	$ 245.88
59.31		5	$ 20,763.00	270.000	$ 76.90	$ 16,014.51	$ 4,748.49		174	96.00	$ 1,688.35	-	62.04	N/A	N/A	96.00	$ 17.59	$ 253.25
59.31		6	$ 24,035.74	276.400	$ 86.96	$ 16,394.11	$ 7,641.63		174	102.40	$ 2,831.05	-	62.04	N/A	N/A	102.40	$ 27.65	$ 424.66
59.31		7	$ 42,447.52	308.330	$ 137.67	$ 18,287.98	$ 24,159.54		174	134.33	$ 10,525.58	-	62.04	N/A	N/A	134.33	$ 78.36	$ 1,578.84
59.31		8	$ 60,271.86	314.440	$ 191.68	$ 18,650.38	$ 41,621.48		87	227.44	$ 30,105.55	-	62.04	N/A	N/A	227.44	$ 132.37	$ 4,515.83
59.31		9	$ 58,625.95	258.960	$ 226.39	$ 15,359.69	$ 43,266.26		87	171.96	$ 28,730.56	-	62.04	N/A	N/A	171.96	$ 167.08	$ 4,309.58
59.31		10	$ 34,661.29	223.060	$ 155.39	$ 13,230.36	$ 21,430.93		87	136.06	$ 13,072.23	-	62.04	N/A	N/A	136.06	$ 96.08	$ 1,960.84
59.31		11	$ 21,244.99	198.070	$ 107.26	$ 11,748.13	$ 9,496.86		87	111.07	$ 5,325.47	-	62.04	N/A	N/A	111.07	$ 47.95	$ 798.82
59.31	Jan 17	12	$ 19,335.62	209.260	$ 92.40	$ 12,411.84	$ 6,923.78	*Brown 3 and Brown 4 were on Reserve Shutdown. Culley units online*	174	35.26	$ 1,166.65	-	62.04	N/A	N/A	35.26	$ 33.09	$ 175.00
59.31		13	$ 16,533.99	195.970	$ 84.37	$ 11,623.57	$ 4,910.42		174	21.97	$ 550.50	-	62.04	N/A	N/A	21.97	$ 25.06	$ 82.58
59.31		14	$ 13,618.73	182.900	$ 74.46	$ 10,848.35	$ 2,770.38		174	8.90	$ 134.81	-	62.04	N/A	N/A	8.90	$ 15.15	$ 20.22
59.31		15	$ 11,311.22	156.470	$ 72.29	$ 9,280.71	$ 2,030.51		174	-	$ -	-	62.04	N/A	N/A	-	$ 12.98	$ -
59.31		16	$ 11,244.83	152.700	$ 73.64	$ 9,057.10	$ 2,187.73		174	-	$ -	-	62.04	N/A	N/A	-	$ 14.33	$ -
59.31		17	$ 15,575.74	173.720	$ 89.66	$ 10,303.85	$ 5,271.89		174	-	$ -	-	62.04	N/A	N/A	-	$ 30.35	$ -
59.31		18	$ 25,996.39	213.190	$ 121.94	$ 12,644.94	$ 13,351.45		174	39.19	$ 2,454.35	-	62.04	N/A	N/A	39.19	$ 62.63	$ 368.15
59.31		19	$ 40,523.62	262.170	$ 154.57	$ 15,550.09	$ 24,973.53		174	88.17	$ 8,398.81	-	62.04	N/A	N/A	88.17	$ 95.26	$ 1,259.82
59.31		20	$ 40,663.26	270.980	$ 150.06	$ 16,072.64	$ 24,590.62		174	96.98	$ 8,800.64	-	62.04	N/A	N/A	96.98	$ 90.75	$ 1,320.10
59.31		21	$ 37,202.67	260.870	$ 142.61	$ 15,472.98	$ 21,729.69		174	86.87	$ 7,236.01	-	62.04	N/A	N/A	86.87	$ 83.30	$ 1,085.40
59.31		22	$ 34,286.19	258.920	$ 132.42	$ 15,357.32	$ 18,928.87		174	84.92	$ 6,208.25	-	62.04	N/A	N/A	84.92	$ 73.11	$ 931.24
59.31		23	$ 26,709.39	235.180	$ 113.57	$ 13,949.23	$ 12,760.16		174	61.18	$ 3,319.44	-	62.04	N/A	N/A	61.18	$ 54.26	$ 497.92
59.31		24	$ 17,613.11	188.840	$ 93.27	$ 11,200.67	$ 6,412.44		174	14.84	$ 503.92	-	62.04	N/A	N/A	14.84	$ 33.96	$ 75.59
43.38		1	$ 10,808.31	170.290	$ 63.47	$ 7,386.33	$ 3,421.98		174	-	$ -	-	62.04	N/A	N/A	-	$ 20.10	$ -
43.38		2	$ 7,720.56	161.080	$ 47.93	$ 6,986.85	$ 733.72		174	-	$ -	-	62.04	N/A	N/A	-	$ 4.55	$ -
43.38		3	$ 85.45	1.590	$ 53.74	$ 68.97	$ 16.48		174	-	$ -	-	62.04	N/A	N/A	-	$ 10.37	$ -
43.38		4	$ 8,179.09	173.550	$ 47.13	$ 7,527.73	$ 651.36		174	-	$ -	-	62.04	N/A	N/A	-	$ 3.75	$ -
43.38		5	$ 9,905.96	191.350	$ 51.77	$ 8,299.81	$ 1,606.15		174	17.35	$ 145.63	-	62.04	N/A	N/A	17.35	$ 8.39	$ 21.84
43.38		6	$ 9,764.72	193.290	$ 50.52	$ 8,383.95	$ 1,380.77		174	19.29	$ 137.80	-	62.04	N/A	N/A	19.29	$ 7.14	$ 20.67
43.38		7	$ 13,006.40	205.080	$ 63.42	$ 8,895.35	$ 4,111.06		-	205.08	$ 4,111.06	-	62.04	N/A	N/A	205.08	$ 20.05	$ 616.66
43.38		8	$ 10,704.11	127.050	$ 84.25	$ 5,510.79	$ 5,193.32		-	127.05	$ 5,193.32	-	62.04	N/A	N/A	127.05	$ 40.88	$ 779.00
43.38	Jan 18	9	$ 17,455.83	161.990	$ 107.76	$ 7,026.32	$ 10,429.51	*Brown 3 and Brown 4 were on Reserve Shutdown. Culley units online*	-	161.99	$ 10,429.51	-	62.04	N/A	N/A	161.99	$ 64.38	$ 1,564.43
43.38		10	$ 10,592.33	175.010	$ 60.52	$ 7,591.06	$ 3,001.27		-	175.01	$ 3,001.27	-	62.04	N/A	N/A	175.01	$ 17.15	$ 450.19
43.38		11	$ 15,875.87	231.900	$ 68.46	$ 10,058.66	$ 5,817.21		87	144.90	$ 3,634.81	-	62.04	N/A	N/A	144.90	$ 25.08	$ 545.22
43.38		12	$ 16,537.28	264.480	$ 62.53	$ 11,471.82	$ 5,065.46		174	90.48	$ 1,732.92	-	62.04	N/A	N/A	90.48	$ 19.15	$ 259.94
43.38		13	$ 10,889.95	192.300	$ 56.63	$ 8,341.01	$ 2,548.94		174	18.30	$ 242.57	-	62.04	N/A	N/A	18.30	$ 13.26	$ 36.38
43.38		14	$ 9,465.19	188.100	$ 50.32	$ 8,158.84	$ 1,306.35		174	14.10	$ 97.92	-	62.04	N/A	N/A	14.10	$ 6.94	$ 14.69
43.38		18	$ 9,031.14	196.500	$ 45.96	$ 8,523.19	$ 507.95		174	22.50	$ 58.16	-	62.04	N/A	N/A	22.50	$ 2.58	$ 8.72
43.38		19	$ 18,054.82	315.900	$ 57.15	$ 13,702.16	$ 4,352.66		174	141.90	$ 1,955.18	-	62.04	N/A	N/A	141.90	$ 13.78	$ 293.28
43.38		20	$ 10,488.32	217.600	$ 48.20	$ 9,438.40	$ 1,049.92		174	43.60	$ 210.37	-	62.04	N/A	N/A	43.60	$ 4.83	$ 31.56
43.38		21	$ 10,643.16	219.900	$ 48.40	$ 9,538.16	$ 1,105.00		174	45.90	$ 230.65	-	62.04	N/A	N/A	45.90	$ 5.03	$ 34.60
43.56		8	$ 10,515.88	217.720	$ 48.30	$ 9,484.54	$ 1,031.34		174	43.72	$ 207.10	-	62.04	N/A	N/A	43.72	$ 4.74	$ 31.07
43.56		9	$ 9,713.38	212.500	$ 45.71	$ 9,257.14	$ 456.24		174	38.50	$ 82.66	-	62.04	N/A	N/A	38.50	$ 2.15	$ 12.40
43.56	Jan 19	18	$ 11,690.40	232.950	$ 50.18	$ 10,148.00	$ 1,542.40	*Brown 3 and Brown 4 were on Reserve Shutdown. Culley units online*	174	58.95	$ 390.32	-	62.04	N/A	N/A	58.95	$ 6.62	$ 58.55
43.56		19	$ 16,139.24	280.180	$ 57.60	$ 12,205.48	$ 3,933.76		174	106.18	$ 1,490.78	-	62.04	N/A	N/A	106.18	$ 14.04	$ 223.62
43.56		20	$ 11,696.45	260.500	$ 44.90	$ 11,348.16	$ 348.29		174	86.50	$ 115.65	-	62.04	N/A	N/A	86.50	$ 1.34	$ 17.35
43.56		21	$ 11,782.87	266.400	$ 44.23	$ 11,605.18	$ 177.69		174	92.40	$ 61.63	-	62.04	N/A	N/A	92.40	$ 0.67	$ 9.24
40.81		1	$ 1,767.48	41.750	$ 42.33	$ 1,703.94	$ 63.54		174	-	$ -	-	62.04	N/A	N/A	-	$ 1.52	$ -
40.81		6	$ 11,926.40	278.790	$ 42.78	$ 11,378.26	$ 548.14		174	104.79	$ 206.03	-	62.04	N/A	N/A	104.79	$ 1.97	$ 30.90
40.81		7	$ 11,287.48	270.100	$ 41.79	$ 11,023.59	$ 263.89		174	96.10	$ 93.89	-	62.04	N/A	N/A	96.10	$ 0.98	$ 14.08
40.81	Jan 20	12	$ 1,950.71	33.990	$ 57.39	$ 1,387.23	$ 563.48	*Brown 3 and Brown 4 were on Reserve Shutdown. Culley units online*	174	-	$ -	-	62.04	N/A	N/A	-	$ 16.58	$ -
40.81		18	$ 11,687.05	246.110	$ 47.49	$ 10,044.49	$ 1,642.56		174	72.11	$ 481.27	-	62.04	N/A	N/A	72.11	$ 6.67	$ 72.19
40.81		19	$ 17,180.38	275.990	$ 62.25	$ 11,263.98	$ 5,916.40		174	101.99	$ 2,186.36	-	62.04	N/A	N/A	101.99	$ 21.44	$ 327.95
40.81		20	$ 11,727.38	271.530	$ 43.19	$ 11,081.95	$ 645.43		174	97.53	$ 231.83	-	62.04	N/A	N/A	97.53	$ 2.38	$ 34.77
40.81		21	$ 11,568.56	282.160	$ 41.00	$ 11,515.80	$ 52.76		174	108.16	$ 20.23	-	62.04	N/A	N/A	108.16	$ 0.19	$ 3.03
40.81		1	$ 13,959.76	260.930	$ 53.50	$ 10,649.34	$ 3,310.42		174	86.93	$ 1,102.88	-	62.04	N/A	N/A	86.93	$ 12.69	$ 165.43
40.81		2	$ 12,281.03	249.970	$ 49.13	$ 10,202.03	$ 2,079.00		174	75.97	$ 631.84	-	62.04	N/A	N/A	75.97	$ 8.32	$ 94.78
40.81		3	$ 12,266.56	255.980	$ 47.92	$ 10,447.31	$ 1,819.25		174	81.98	$ 582.63	-	62.04	N/A	N/A	81.98	$ 7.11	$ 87.39
40.81		4	$ 12,765.56	266.060	$ 47.98	$ 10,858.71	$ 1,906.85		174	92.06	$ 659.79	-	62.04	N/A	N/A	92.06	$ 7.17	$ 98.97
40.81	Jan 21	5	$ 12,419.66	272.600	$ 45.56	$ 11,125.62	$ 1,294.04	*Brown 3 and Brown 4 were on Reserve Shutdown. Culley units online*	174	98.60	$ 468.06	-	62.04	N/A	N/A	98.60	$ 4.75	$ 70.21
40.81		6	$ 14,297.97	281.900	$ 50.72	$ 11,505.18	$ 2,792.79		174	107.90	$ 1,068.97	-	62.04	N/A	N/A	107.90	$ 9.91	$ 160.34
40.81		7	$ 12,965.30	293.200	$ 44.22	$ 11,966.37	$ 998.93		174	119.20	$ 406.11	-	62.04	N/A	N/A	119.20	$ 3.41	$ 60.92
40.81		8	$ 16,388.89	315.900	$ 51.88	$ 12,892.83	$ 3,496.06		174	141.90	$ 1,570.41	-	62.04	N/A	N/A	141.90	$ 11.07	$ 235.56
40.81		9	$ 15,427.77	313.000	$ 49.29	$ 12,774.47	$ 2,653.30		174	139.00	$ 1,178.30	-	62.04	N/A	N/A	139.00	$ 8.48	$ 176.75

CenterPoint Energy Indiana - South
Market Settlements Group
Purchased Power Over Benchmark Explanations - January - Cause No. 38708 FAC 143

S55's through 11/30

Jan Benchmark Costs	Trade Date	HE	Cost of Purchased Power	Purchases Volume	Price	Purchases Volume @ Benchmark $	Amount Over Benchmark $	Reason for Purchasing Power	Available Capacity of Units Not Selected	MISO Economic Dispatch / Purchased MWs above Capacity	Purchase Power Costs at Risk	Test for Outages and Derates: MWs Out of Service	Test for Outages and Derates: 11% of Summer Rated Capacity	Test for Outages and Derates: Are Unit MWs Out of Service > 11% Summer Capacity?	Test for Outages and Derates: Recoverable @ 0%, 85%, or 100%	MWs Subject to 85%	Over Benchmark Price	Total Unrecoverable Dollars
40.81	Jan 22	7	$ 5,496.40	129.510	$ 42.44	$ 5,285.69	$ 210.71	*Brown 3 and Brown 4 were on Reserve Shutdown. Culley units online*	174	-	$ -	-	62.04	N/A	N/A	-	$ 1.63	$ -
40.81		8	$ 8,259.10	163.030	$ 50.66	$ 6,653.74	$ 1,605.36		174	-	$ -	-	62.04	N/A	N/A	-	$ 9.85	$ -
40.81		18	$ 6,845.11	151.340	$ 45.23	$ 6,176.64	$ 668.47		174	-	$ -	-	62.04	N/A	N/A	-	$ 4.42	$ -
40.81		19	$ 9,674.02	192.250	$ 50.32	$ 7,846.30	$ 1,827.72		174	18.25	$ 173.50	-	62.04	N/A	N/A	18.25	$ 9.51	$ 26.03
40.81		20	$ 7,525.79	175.590	$ 42.86	$ 7,166.35	$ 359.44		174	1.59	$ 3.25	-	62.04	N/A	N/A	1.59	$ 2.05	$ 0.49
36.63	Jan 23	8	$ 5,312.14	127.420	$ 41.69	$ 4,666.76	$ 645.38	*Brown 3 and Brown 4 were on Reserve Shutdown. Culley units online*	174	-	$ -	-	62.04	N/A	N/A	-	$ 5.07	$ -
36.63		9	$ 5,847.04	146.030	$ 40.04	$ 5,348.35	$ 498.69		174	-	$ -	-	62.04	N/A	N/A	-	$ 3.41	$ -
34.44	Jan 24	8	$ 4,679.65	120.890	$ 38.71	$ 4,163.21	$ 516.44	*Brown 3 and Brown 4 were on Reserve Shutdown. Culley units online*	174	-	$ -	-	62.04	N/A	N/A	-	$ 4.27	$ -
34.44		9	$ 4,451.23	125.990	$ 35.33	$ 4,338.84	$ 112.39		174	-	$ -	-	62.04	N/A	N/A	-	$ 0.89	$ -
34.44		18	$ 5,611.79	152.370	$ 36.83	$ 5,247.32	$ 364.47		174	-	$ -	-	62.04	N/A	N/A	-	$ 2.39	$ -
34.44		19	$ 5,785.33	159.860	$ 36.19	$ 5,505.26	$ 280.07		174	-	$ -	-	62.04	N/A	N/A	-	$ 1.75	$ -
37.94	Jan 25	8	$ 4,724.65	109.850	$ 43.01	$ 4,167.49	$ 557.16	*Brown 3 and Brown 4 were on Reserve Shutdown. Culley units online*	174	-	$ -	-	62.04	N/A	N/A	-	$ 5.07	$ -
37.94		9	$ 5,504.21	133.500	$ 41.23	$ 5,064.72	$ 439.49		174	-	$ -	-	62.04	N/A	N/A	-	$ 3.29	$ -
37.25	Jan 28	19	$ 4,234.77	111.500	$ 37.98	$ 4,153.38	$ 81.40	*Brown 3 and Brown 4 were on Reserve Shutdown. Culley units online*	174	-	$ -	-	62.04	N/A	N/A	-	$ 0.73	$ -
37.25	Jan 29	8	$ 14,091.41	311.000	$ 45.31	$ 11,584.75	$ 2,506.66	*Brown 3 and Brown 4 were on Reserve Shutdown. Culley 2 was on outage*	174	137.00	$ 1,104.22	90	62.04	YES	100	47.00	$ 8.06	$ 56.82
37.25		9	$ 12,948.38	322.500	$ 40.15	$ 12,013.13	$ 935.25		174	148.50	$ 430.65	90	62.04	YES	100	58.50	$ 2.90	$ 25.45
37.25		10	$ 4,723.48	26.050	$ 181.32	$ 970.36	$ 3,753.12		174	-	$ -	90	62.04	YES	100	-	$ 144.07	$ -
37.94	Jan 30	10	$ 621.28	9.670	$ 64.25	$ 366.86	$ 254.42	*Brown 3 and Brown 4 were on Reserve Shutdown. Culley 2 was on outage*	174	-	$ -	90	62.04	YES	100	-	$ 26.31	$ -
37.94		15	$ 599.74	5.720	$ 104.85	$ 217.01	$ 382.73		174	-	$ -	90	62.04	YES	100	-	$ 66.91	$ -
37.94		18	$ 11,788.86	310.560	$ 37.96	$ 11,782.03	$ 6.83		174	136.56	$ 3.01	90	62.04	YES	100	46.56	$ 0.02	$ 0.15
37.94		19	$ 13,112.79	318.040	$ 41.23	$ 12,065.80	$ 1,046.99		174	144.04	$ 474.18	90	62.04	YES	100	54.04	$ 3.29	$ 26.68
35.81	Jan 31	8	$ 12,503.11	303.400	$ 41.21	$ 10,865.66	$ 1,637.45	*Brown 3 and Brown 4 were on Reserve Shutdown. Culley 2 was on outage*	174	129.40	$ 698.37	90	62.04	YES	100	39.40	$ 5.40	$ 31.90
35.81		9	$ 11,375.03	315.710	$ 36.03	$ 11,306.52	$ 68.51		174	141.71	$ 30.75	90	62.04	YES	100	51.71	$ 0.22	$ 1.68
Total			$ 2,480,657.01	27,168.320		$ 1,784,575.60	$ 696,081.43		21,054.000	9,552.200	$ 308,494.31	2,160.000				8,480.530		$ 45,042.62

CenterPoint Energy Indiana - South
Market Settlements Group
Purchased Power Over Benchmark Explanations - February - Cause No. 38708 FAC 143

S55's through 2/29

Feb Benchmark Costs	Trade Date	HE	Cost of Purchased Power	Purchases Volume	Price	Purchases Volume @ Benchmark $	Amount Over Benchmark $	Reason for Purchasing Power	Available Capacity of Units Not Selected	MISO Economic Dispatch / Purchased MWs above Capacity	Purchase Power Costs at Risk	Test for Outages and Derates: MWs Out of Service	Test for Outages and Derates: 11% of Summer Rated Capacity	Test for Outages and Derates: Are Unit MWs Out of Service > 11% Summer Capacity?	Recoverable @ 0%, 85%, or 100%	MWs Subject to 85%-15%	Over Benchmark Price	Total Unrecoverable Dollars
35.38	Feb 1	7	$ 669.13	15.800	$ 42.35	$ 558.93	$ 110.21	Brown 3, Brown 4, and Culley 2 were on Reserve Shutdown,	264	-	$ -	-	62.04	N/A	N/A	-	$ 6.97	$ -
35.38		8	$ 11,005.45	272.210	$ 40.43	$ 9,629.43	$ 1,376.02		264	8.21	$ 41.50	-	62.04	N/A	N/A	8.21	$ 5.05	$ 6.23
35.38		9	$ 9,835.16	272.820	$ 36.05	$ 9,651.01	$ 184.15		264	8.82	$ 5.95	-	62.04	N/A	N/A	8.82	$ 0.67	$ 0.89
34.19	Feb 2	7	$ 10,223.00	282.450	$ 36.19	$ 9,656.40	$ 566.60	Brown 3, Brown 4, and Culley 2 was on outage	174	108.45	$ 217.55	90	62.04	YES	100	18.45	$ 2.01	$ 5.55
34.19		8	$ 9,302.50	233.130	$ 39.90	$ 7,970.25	$ 1,332.25		174	59.13	$ 337.91	90	62.04	YES	100	-	$ 5.71	$ -
34.19		9	$ 8,288.43	235.400	$ 35.21	$ 8,047.86	$ 240.57		174	61.40	$ 62.75	90	62.04	YES	100	-	$ 1.02	$ -
32.94	Feb 3	7	$ 1,058.53	23.650	$ 44.76	$ 778.98	$ 279.55	Brown 3, Brown 4, and Culley 2 were on Reserve Shutdown	264	-	$ -	-	62.04	N/A	N/A	-	$ 11.82	$ -
32.94		18	$ 3,141.96	93.930	$ 33.45	$ 3,093.87	$ 48.09		264	-	$ -	-	62.04	N/A	N/A	-	$ 0.51	$ -
32.94	Feb 5	6	$ 284.74	8.610	$ 33.07	$ 283.60	$ 1.14	Brown 3, Brown 4, and Culley 2 were on Reserve Shutdown	264	-	$ -	-	62.04	N/A	N/A	-	$ 0.13	$ -
32.94		7	$ 7,780.78	189.180	$ 41.13	$ 6,231.21	$ 1,549.57		264	-	$ -	-	62.04	N/A	N/A	-	$ 8.19	$ -
32.94		8	$ 23,285.19	238.940	$ 97.45	$ 7,870.21	$ 15,414.98		177	61.94	$ 3,996.00	-	62.04	N/A	N/A	61.94	$ 64.51	$ 599.40
32.94		9	$ 7,824.98	194.120	$ 40.31	$ 6,393.92	$ 1,431.06		177	17.12	$ 126.21	-	62.04	N/A	N/A	17.12	$ 7.37	$ 18.93
32.94		10	$ 6,548.06	192.590	$ 34.00	$ 6,343.53	$ 204.53		177	15.59	$ 16.56	-	62.04	N/A	N/A	15.59	$ 1.06	$ 2.48
32.94		19	$ 8,553.44	218.200	$ 39.20	$ 7,187.07	$ 1,366.37		264	-	$ -	-	62.04	N/A	N/A	-	$ 6.26	$ -
33.94	Feb 6	7	$ 8,522.98	222.300	$ 38.34	$ 7,544.42	$ 978.56	Brown 3, Brown 4, and Culley 2 were on Reserve Shutdown	264	-	$ -	-	62.04	N/A	N/A	-	$ 4.40	$ -
33.94		8	$ 13,378.95	260.900	$ 51.28	$ 8,854.42	$ 4,524.53		264	-	$ -	-	62.04	N/A	N/A	-	$ 17.34	$ -
33.94		9	$ 9,775.71	260.200	$ 37.57	$ 8,830.67	$ 945.04		264	-	$ -	-	62.04	N/A	N/A	-	$ 3.63	$ -
33.94		17	$ 2,699.24	77.900	$ 34.65	$ 2,643.77	$ 55.47		264	-	$ -	-	62.04	N/A	N/A	-	$ 0.71	$ -
33.94		18	$ 710.38	4.400	$ 161.45	$ 149.33	$ 561.05		264	-	$ -	-	62.04	N/A	N/A	-	$ 127.51	$ -
33.94		19	$ 8,658.51	245.650	$ 35.25	$ 8,336.87	$ 321.64		264	-	$ -	-	62.04	N/A	N/A	-	$ 1.31	$ -
33.94		21	$ 513.36	14.190	$ 36.18	$ 481.58	$ 31.78		264	-	$ -	-	62.04	N/A	N/A	-	$ 2.24	$ -
33.94		22	$ 1,490.41	30.390	$ 49.04	$ 1,031.38	$ 459.03		264	-	$ -	-	62.04	N/A	N/A	-	$ 15.10	$ -
33.63	Feb 7	5	$ 411.59	11.690	$ 35.21	$ 393.08	$ 18.51	Brown 3, Brown 4, and Culley 2 were on Reserve Shutdown	264	-	$ -	-	62.04	N/A	N/A	-	$ 1.58	$ -
33.63		6	$ 520.77	15.050	$ 34.60	$ 506.06	$ 14.71		264	-	$ -	-	62.04	N/A	N/A	-	$ 0.98	$ -
33.63		7	$ 8,753.38	235.110	$ 37.23	$ 7,905.57	$ 847.81		264	-	$ -	-	62.04	N/A	N/A	-	$ 3.61	$ -
33.63		8	$ 10,748.66	258.630	$ 41.56	$ 8,696.43	$ 2,052.23		264	-	$ -	-	62.04	N/A	N/A	-	$ 7.93	$ -
33.63		9	$ 558.63	15.660	$ 35.67	$ 526.57	$ 32.06		264	-	$ -	-	62.04	N/A	N/A	-	$ 2.05	$ -
33.63		10	$ 480.80	13.900	$ 34.59	$ 467.39	$ 13.41		264	-	$ -	-	62.04	N/A	N/A	-	$ 0.96	$ -
33.63		19	$ 961.91	20.330	$ 47.31	$ 683.60	$ 278.31		264	-	$ -	-	62.04	N/A	N/A	-	$ 13.69	$ -
32.13	Feb 8	6	$ 3,264.43	94.130	$ 34.68	$ 3,023.93	$ 240.50	Brown 3, Brown 4, and Culley 2 were on Reserve Shutdown	264	-	$ -	-	62.04	N/A	N/A	-	$ 2.56	$ -
32.13		7	$ 6,895.06	153.740	$ 44.85	$ 4,938.90	$ 1,956.16		264	-	$ -	-	62.04	N/A	N/A	-	$ 12.72	$ -
32.13		8	$ 5,713.19	137.800	$ 41.46	$ 4,426.83	$ 1,286.37		264	-	$ -	-	62.04	N/A	N/A	-	$ 9.34	$ -
32.13		9	$ 4,539.50	138.950	$ 32.67	$ 4,463.77	$ 75.73		264	-	$ -	-	62.04	N/A	N/A	-	$ 0.55	$ -
29.06	Feb 10	17	$ 7,832.27	178.250	$ 43.94	$ 5,180.48	$ 2,651.79	Brown 3, Brown 4, and Culley 2 were on Reserve Shutdown	264	-	$ -	-	62.04	N/A	N/A	-	$ 14.88	$ -
29.06		18	$ 4,056.16	122.100	$ 33.22	$ 3,548.59	$ 507.57		264	-	$ -	-	62.04	N/A	N/A	-	$ 4.16	$ -
29.06		19	$ 22,226.68	207.980	$ 106.87	$ 6,044.52	$ 16,182.16		264	-	$ -	-	62.04	N/A	N/A	-	$ 77.81	$ -
29.06		20	$ 6,658.04	203.400	$ 32.73	$ 5,911.41	$ 746.63		264	-	$ -	-	62.04	N/A	N/A	-	$ 3.67	$ -
29.06		22	$ 1,932.72	64.210	$ 30.10	$ 1,866.14	$ 66.58		264	-	$ -	-	62.04	N/A	N/A	-	$ 1.04	$ -
29.06		23	$ 2,657.13	57.940	$ 45.86	$ 1,683.91	$ 973.22		264	-	$ -	-	62.04	N/A	N/A	-	$ 16.80	$ -
29.06	Feb 11	2	$ 6,137.85	148.080	$ 41.45	$ 4,303.65	$ 1,834.20	Brown 3, Brown 4, and Culley 2 were on Reserve Shutdown	264	-	$ -	-	62.04	N/A	N/A	-	$ 12.39	$ -
29.06		9	$ 3,186.82	109.400	$ 29.13	$ 3,179.49	$ 7.33		264	-	$ -	-	62.04	N/A	N/A	-	$ 0.07	$ -
29.06		10	$ 3,076.77	41.200	$ 74.68	$ 1,197.40	$ 1,879.37		264	-	$ -	-	62.04	N/A	N/A	-	$ 45.62	$ -
29.06		18	$ 4,557.70	140.800	$ 32.37	$ 4,092.07	$ 465.63		264	-	$ -	-	62.04	N/A	N/A	-	$ 3.31	$ -
29.06		19	$ 6,121.90	164.700	$ 37.17	$ 4,786.68	$ 1,335.22		264	-	$ -	-	62.04	N/A	N/A	-	$ 8.11	$ -
29.06		20	$ 5,403.29	156.300	$ 34.57	$ 4,542.55	$ 860.74		264	-	$ -	-	62.04	N/A	N/A	-	$ 5.51	$ -
29.06	Feb 12	7	$ 7,317.12	192.000	$ 38.11	$ 5,580.10	$ 1,737.02	Brown 3 was on outage, Brown 4 and Culley 2 were on Reserve Shutdown	177	15.00	$ 135.71	87	62.04	YES	100	-	$ 9.05	$ -
29.06		8	$ 11,919.24	234.400	$ 50.85	$ 6,812.37	$ 5,106.87		177	57.40	$ 1,250.57	87	62.04	YES	100	-	$ 21.79	$ -
29.06		9	$ 9,898.70	250.600	$ 39.50	$ 7,283.19	$ 2,615.51		177	73.60	$ 768.16	87	62.04	YES	100	-	$ 10.44	$ -
29.06		10	$ 8,856.22	257.000	$ 34.46	$ 7,469.19	$ 1,387.03		177	80.00	$ 431.76	87	62.04	YES	100	-	$ 5.40	$ -
29.06		11	$ 8,727.16	258.200	$ 33.80	$ 7,504.07	$ 1,223.09		177	81.20	$ 384.64	87	62.04	YES	100	-	$ 4.74	$ -
29.06		12	$ 7,952.82	255.800	$ 31.09	$ 7,434.32	$ 518.50		177	78.80	$ 159.73	87	62.04	YES	100	-	$ 2.03	$ -
29.06		18	$ 10,131.57	323.090	$ 31.36	$ 9,389.96	$ 741.61		177	146.09	$ 335.33	87	62.04	YES	100	59.09	$ 2.30	$ 20.34
29.06		19	$ 10,415.22	263.210	$ 39.57	$ 7,649.67	$ 2,765.55		177	86.21	$ 905.81	87	62.04	YES	100	-	$ 10.51	$ -
29.06		20	$ 7,865.71	224.350	$ 35.06	$ 6,520.28	$ 1,345.43		177	47.35	$ 283.96	87	62.04	YES	100	-	$ 6.00	$ -
29.81		7	$ 10,160.64	259.200	$ 39.20	$ 7,727.53	$ 2,433.11		177	82.20	$ 771.61	87	62.04	YES	100	-	$ 9.39	$ -
29.81		8	$ 14,226.85	272.180	$ 52.27	$ 8,114.50	$ 6,112.35		177	95.18	$ 2,137.46	87	62.04	YES	100	8.18	$ 22.46	$ 27.55
29.81		9	$ 8,318.88	231.080	$ 36.00	$ 6,889.19	$ 1,429.69		177	54.08	$ 334.59	87	62.04	YES	100	-	$ 6.19	$ -

CenterPoint Energy Indiana - South
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Purchased Power Over Benchmark Explanations - February - Cause No. 38708 FAC 143

S55's through 2/29

Feb Benchmark Costs	Trade Date	HE	Cost of Purchased Power	Purchases Volume	Price	Purchases Volume @ Benchmark $	Amount Over Benchmark $	Reason for Purchasing Power	Available Capacity of Units Not Selected	MISO Economic Dispatch / Purchased MWs above Capacity	Purchase Power Costs at Risk	MWs Out of Service	Test for Outages and Derates: 11% of Summer Rated Capacity	Test for Outages and Derates: Are Unit MWs Out of Service > 11% Summer Capacity?	Recoverable @ 0%, 85%, or 100%	MWs Subject to 85%-15%	Over Benchmark Price	Total Unrecoverable Dollars
29.81	Feb 13	10	$ 6,808.83	216.980	$ 31.38	$ 6,468.82	$ 340.01	Brown 3 was on outage, Brown 4 and Culley 2 were on Reserve Shutdown	177	39.98	$ 62.65	87	62.04	YES	100	-	$ 1.57	$ -
29.81		11	$ 6,298.29	204.490	$ 30.80	$ 6,096.46	$ 201.83		177	27.49	$ 27.13	87	62.04	YES	100	-	$ 0.99	$ -
29.81		18	$ 7,091.45	218.400	$ 32.47	$ 6,511.16	$ 580.29		177	41.40	$ 110.00	87	62.04	YES	100	-	$ 2.66	$ -
29.81		19	$ 10,594.56	256.900	$ 41.24	$ 7,658.96	$ 2,935.60		177	79.90	$ 913.02	87	62.04	YES	100	-	$ 11.43	$ -
29.81		20	$ 8,835.34	252.150	$ 35.04	$ 7,517.35	$ 1,317.99		177	75.15	$ 392.81	87	62.04	YES	100	-	$ 5.23	$ -
28.31		7	$ 8,252.83	243.950	$ 33.83	$ 6,906.96	$ 1,345.87		177	66.95	$ 369.36	87	62.04	YES	100	-	$ 5.52	$ -
28.31		8	$ 12,141.50	277.520	$ 43.75	$ 7,857.42	$ 4,284.08		177	100.52	$ 1,551.73	87	62.04	YES	100	13.52	$ 15.44	$ 31.31
28.31		9	$ 9,616.31	269.440	$ 35.69	$ 7,628.65	$ 1,987.66	Brown 3 was on outage, Brown 4 and Culley 2 were on Reserve Shutdown	177	92.44	$ 681.93	87	62.04	YES	100	5.44	$ 7.38	$ 6.02
28.31	Feb 14	10	$ 6,855.25	235.900	$ 29.06	$ 6,679.04	$ 176.21		177	58.90	$ 44.00	87	62.04	YES	100	-	$ 0.75	$ -
28.31		11	$ 5,948.01	205.600	$ 28.93	$ 5,821.15	$ 126.86		177	28.60	$ 17.65	87	62.04	YES	100	-	$ 0.62	$ -
28.31		18	$ 5,754.00	197.800	$ 29.09	$ 5,600.31	$ 153.69		177	20.80	$ 16.16	87	62.04	YES	100	-	$ 0.78	$ -
28.31		19	$ 6,550.78	225.500	$ 29.05	$ 6,384.58	$ 166.20		177	48.50	$ 35.75	87	62.04	YES	100	-	$ 0.74	$ -
26.38		7	$ 6,066.25	217.740	$ 27.86	$ 5,742.89	$ 323.36		177	40.74	$ 60.50	87	62.04	YES	100	-	$ 1.49	$ -
26.38		8	$ 5,322.77	188.350	$ 28.26	$ 4,967.73	$ 355.04	Brown 3 was on outage, Brown 4 and Culley 2 were on Reserve Shutdown	177	11.35	$ 21.39	87	62.04	YES	100	-	$ 1.88	$ -
26.38	Feb 15	18	$ 4,339.30	158.600	$ 27.36	$ 4,183.08	$ 156.23		177	-	$ -	87	62.04	YES	100	-	$ 0.99	$ -
26.38		19	$ 7,232.32	229.230	$ 31.55	$ 6,045.94	$ 1,186.38		177	52.23	$ 270.32	87	62.04	YES	100	-	$ 5.18	$ -
26.38		20	$ 5,743.57	191.900	$ 29.93	$ 5,061.36	$ 682.21		177	14.90	$ 52.97	87	62.04	YES	100	-	$ 3.56	$ -
26.44		7	$ 9,853.40	305.680	$ 32.23	$ 8,081.57	$ 1,771.83		177	128.68	$ 745.88	87	62.04	YES	100	41.68	$ 5.80	$ 36.24
26.44		8	$ 9,926.15	279.480	$ 35.52	$ 7,388.89	$ 2,537.26		177	102.48	$ 930.36	87	62.04	YES	100	15.48	$ 9.08	$ 21.08
26.44		9	$ 7,017.22	219.700	$ 31.94	$ 5,808.43	$ 1,208.79		177	42.70	$ 234.94	87	62.04	YES	100	-	$ 5.50	$ -
26.44		10	$ 6,240.62	219.200	$ 28.47	$ 5,795.21	$ 445.41		177	42.20	$ 85.75	87	62.04	YES	100	-	$ 2.03	$ -
26.44		11	$ 5,803.96	219.100	$ 26.49	$ 5,792.57	$ 11.39	Brown 3 was on outage, Brown 4 and Culley 2 were on Reserve Shutdown	177	42.10	$ 2.19	87	62.04	YES	100	-	$ 0.05	$ -
26.44	Feb 16	12	$ 5,762.08	46.090	$ 125.02	$ 1,218.53	$ 4,543.55		177	-	$ -	87	62.04	YES	100	-	$ 98.58	$ -
26.44		13	$ 2,322.68	46.980	$ 49.44	$ 1,242.06	$ 1,080.62		177	-	$ -	87	62.04	YES	100	-	$ 23.00	$ -
26.44		18	$ 9,243.09	323.280	$ 28.59	$ 8,546.88	$ 696.21		177	146.28	$ 315.03	87	62.04	YES	100	59.28	$ 2.15	$ 19.15
26.44		19	$ 9,617.57	318.470	$ 30.20	$ 8,419.71	$ 1,197.86		177	141.47	$ 532.11	87	62.04	YES	100	54.47	$ 3.76	$ 30.73
26.44		20	$ 6,172.49	233.100	$ 26.48	$ 6,162.70	$ 9.79		177	56.10	$ 2.36	87	62.04	YES	100	-	$ 0.04	$ -
26.44		21	$ 2,277.25	83.620	$ 27.23	$ 2,210.75	$ 66.50		177	-	$ -	87	62.04	YES	100	-	$ 0.80	$ -
26.81		7	$ 7,969.06	293.380	$ 27.16	$ 7,866.40	$ 102.66		177	116.38	$ 40.72	87	62.04	YES	100	29.38	$ 0.35	$ 1.54
26.81		8	$ 9,988.85	321.530	$ 31.07	$ 8,621.18	$ 1,367.67		177	144.53	$ 614.78	87	62.04	YES	100	57.53	$ 4.25	$ 36.71
26.81		9	$ 11,309.15	328.400	$ 34.44	$ 8,805.39	$ 2,503.76		177	151.40	$ 1,154.29	87	62.04	YES	100	64.40	$ 7.62	$ 73.65
26.81	Feb 17	10	$ 7,992.30	265.500	$ 30.10	$ 7,118.85	$ 873.45	Brown 3 was on outage, Brown 4 and Culley 2 were on Reserve Shutdown	177	88.50	$ 291.15	87	62.04	YES	100	1.50	$ 3.29	$ 0.74
26.81		18	$ 8,767.28	296.990	$ 29.52	$ 7,963.19	$ 804.09		177	119.99	$ 324.87	87	62.04	YES	100	32.99	$ 2.71	$ 13.40
26.81		19	$ 14,127.33	305.820	$ 46.19	$ 8,199.95	$ 5,927.38		177	128.82	$ 2,496.78	87	62.04	YES	100	41.82	$ 19.38	$ 121.58
26.81		20	$ 7,609.48	254.140	$ 29.94	$ 6,814.26	$ 795.22		177	77.14	$ 241.38	87	62.04	YES	100	-	$ 3.13	$ -
26.81		4	$ 1,935.29	69.740	$ 27.75	$ 1,869.94	$ 65.35		177	-	$ -	87	62.04	YES	100	-	$ 0.94	$ -
26.81		7	$ 5,397.53	192.700	$ 28.01	$ 5,166.87	$ 230.66		177	15.70	$ 18.79	87	62.04	YES	100	-	$ 1.20	$ -
26.81		8	$ 6,626.47	204.900	$ 32.34	$ 5,493.98	$ 1,132.49		177	27.90	$ 154.20	87	62.04	YES	100	-	$ 5.53	$ -
26.81	Feb 18	9	$ 5,273.00	189.200	$ 27.87	$ 5,073.02	$ 199.98	Brown 3 was on outage, Brown 4 and Culley 2 were on Reserve Shutdown	177	12.20	$ 12.90	87	62.04	YES	100	-	$ 1.06	$ -
26.81		18	$ 4,160.75	151.300	$ 27.50	$ 4,056.81	$ 103.94		177	-	$ -	87	62.04	YES	100	-	$ 0.69	$ -
26.81		19	$ 6,989.46	195.400	$ 35.77	$ 5,239.26	$ 1,750.20		177	18.40	$ 164.81	87	62.04	YES	100	-	$ 8.96	$ -
26.81		20	$ 6,336.08	186.520	$ 33.97	$ 5,001.16	$ 1,334.92		177	9.52	$ 68.13	87	62.04	YES	100	-	$ 7.16	$ -
26.81		21	$ 5,049.73	176.010	$ 28.69	$ 4,719.36	$ 330.37		177	-	$ -	87	62.04	YES	100	-	$ 1.88	$ -
26.81		5	$ 2,384.77	65.150	$ 36.60	$ 1,746.87	$ 637.90		177	-	$ -	87	62.04	YES	100	-	$ 9.79	$ -
26.81		6	$ 5,971.79	216.480	$ 27.59	$ 5,804.48	$ 167.31		177	39.48	$ 30.51	87	62.04	YES	100	-	$ 0.77	$ -
26.81		7	$ 8,354.72	250.010	$ 33.42	$ 6,703.52	$ 1,651.20		177	73.01	$ 482.20	87	62.04	YES	100	-	$ 6.60	$ -
26.81		8	$ 12,026.36	271.750	$ 44.26	$ 7,286.43	$ 4,739.93		177	94.75	$ 1,652.65	87	62.04	YES	100	7.75	$ 17.44	$ 20.28
26.81	Feb 19	9	$ 8,252.32	261.400	$ 31.57	$ 7,008.92	$ 1,243.40	Brown 3 was on outage, Brown 4 and Culley 2 were on Reserve Shutdown	177	84.40	$ 401.47	87	62.04	YES	100	-	$ 4.76	$ -
26.81		10	$ 3,842.98	128.700	$ 29.86	$ 3,450.83	$ 392.15		177	-	$ -	87	62.04	YES	100	-	$ 3.05	$ -
26.81		18	$ 10,963.53	283.380	$ 38.69	$ 7,598.27	$ 3,365.26		177	106.38	$ 1,263.31	87	62.04	YES	100	19.38	$ 11.88	$ 34.52
26.81		19	$ 7,806.95	258.500	$ 30.20	$ 6,931.16	$ 875.79		177	81.50	$ 276.12	87	62.04	YES	100	-	$ 3.39	$ -
26.81		20	$ 6,225.58	214.460	$ 29.03	$ 5,750.32	$ 475.26		177	37.46	$ 83.01	87	62.04	YES	100	-	$ 2.22	$ -
26.81		6	$ 462.88	17.030	$ 27.18	$ 456.63	$ 6.25		177	-	$ -	87	62.04	YES	100	-	$ 0.37	$ -
26.81		7	$ 7,547.92	214.790	$ 35.14	$ 5,759.16	$ 1,788.76		177	37.79	$ 314.71	87	62.04	YES	100	-	$ 8.33	$ -
26.81		8	$ 10,720.16	211.610	$ 50.66	$ 5,673.90	$ 5,046.26		177	34.61	$ 825.34	87	62.04	YES	100	-	$ 23.85	$ -
26.81	Feb 20	9	$ 7,318.47	227.070	$ 32.23	$ 6,088.43	$ 1,230.04	Brown 3 was on outage, Brown 4 and Culley 2 were on Reserve Shutdown	177	50.07	$ 271.23	87	62.04	YES	100	-	$ 5.42	$ -
26.81		10	$ 5,582.36	202.700	$ 27.54	$ 5,435.00	$ 147.36		177	25.70	$ 18.68	87	62.04	YES	100	-	$ 0.73	$ -
26.81		12	$ 4,547.28	96.730	$ 47.01	$ 2,593.62	$ 1,953.66		177	-	$ -	87	62.04	YES	100	-	$ 20.20	$ -
26.81		18	$ 7,956.91	246.260	$ 32.31	$ 6,602.97	$ 1,353.94		177	69.26	$ 380.79	87	62.04	YES	100	-	$ 5.50	$ -
26.81		19	$ 5,029.66	182.300	$ 27.59	$ 4,888.01	$ 141.65		177	5.30	$ 4.12	87	62.04	YES	100	-	$ 0.78	$ -

CenterPoint Energy Indiana - South
Market Settlements Group
Purchased Power Over Benchmark Explanations - February - Cause No. 38708 FAC 143

S55's through 2/29

Feb Benchmark Costs	Trade Date	HE	Cost of Purchased Power	Purchases Volume	Price	Purchases Volume @ Benchmark $	Amount Over Benchmark $	Reason for Purchasing Power	Available Capacity of Units Not Selected	MISO Economic Dispatch / Purchased MWs above Capacity	Purchase Power Costs at Risk	Test for Outages and Derates: MWs Out of Service	Test for Outages and Derates: 11% of Summer Rated Capacity	Test for Outages and Derates: Are Unit MWs Out of Service > 11% Summer Capacity?	Recoverable @ 0%, 85%, or 100%	MWs Subject to 85%-15%	Over Benchmark Price	Total Unrecoverable Dollars
26.31	Feb 21	7	$ 7,061.13	216.400	$ 32.63	$ 5,694.13	$ 1,367.00	Brown 3 was on outage, Brown 4 and Culley 2 were on Reserve Shutdown	177	39.40	$ 248.89	87	62.04	YES	100	-	$ 6.32	$ -
26.31		8	$ 13,264.02	291.030	$ 45.58	$ 7,657.87	$ 5,606.15		177	114.03	$ 2,196.57	87	62.04	YES	100	27.03	$ 19.26	$ 78.10
26.31		9	$ 6,151.28	210.300	$ 29.25	$ 5,533.62	$ 617.66		177	33.30	$ 97.80	87	62.04	YES	100	-	$ 2.94	$ -
26.31		18	$ 4,516.22	153.300	$ 29.46	$ 4,033.78	$ 482.44		177	-	$ -	87	62.04	YES	100	-	$ 3.15	$ -
26.31		19	$ 8,882.33	298.210	$ 29.79	$ 7,846.80	$ 1,035.53		177	121.21	$ 420.90	87	62.04	YES	100	34.21	$ 3.47	$ 17.82
26.31		20	$ 5,563.94	188.800	$ 29.47	$ 4,967.89	$ 596.05		177	11.80	$ 37.25	87	62.04	YES	100	-	$ 3.16	$ -
26.31		22	$ 487.29	17.110	$ 28.48	$ 450.22	$ 37.07		177	-	$ -	87	62.04	YES	100	-	$ 2.17	$ -
27.50	Feb 22	7	$ 6,742.96	241.510	$ 27.92	$ 6,641.53	$ 101.44	Brown 3 was on outage, Brown 4 and Culley 2 were on Reserve Shutdown	177	64.51	$ 27.09	87	62.04	YES	100	-	$ 0.42	$ -
27.50		8	$ 6,696.46	199.240	$ 33.61	$ 5,479.10	$ 1,217.36		177	22.24	$ 135.89	87	62.04	YES	100	-	$ 6.11	$ -
27.50		11	$ 10,950.81	112.860	$ 97.03	$ 3,103.65	$ 7,847.16		177	-	$ -	87	62.04	YES	100	-	$ 69.53	$ -
27.50		18	$ 5,643.75	180.600	$ 31.25	$ 4,966.50	$ 677.25		177	3.60	$ 13.50	87	62.04	YES	100	-	$ 3.75	$ -
27.50		19	$ 5,997.69	194.100	$ 30.90	$ 5,337.75	$ 659.94		177	17.10	$ 58.14	87	62.04	YES	100	-	$ 3.40	$ -
27.50		20	$ 8,755.82	280.830	$ 31.18	$ 7,722.83	$ 1,033.00		177	103.83	$ 381.92	87	62.04	YES	100	16.83	$ 3.68	$ 9.29
27.56	Feb 23	8	$ 5,644.75	167.500	$ 33.70	$ 4,616.80	$ 1,027.95	Brown 3 was on outage, Brown 4 and Culley 2 were on Reserve Shutdown	177	-	$ -	87	62.04	YES	100	-	$ 6.14	$ -
27.56		19	$ 4,730.45	166.800	$ 28.36	$ 4,597.51	$ 132.94		177	-	$ -	87	62.04	YES	100	-	$ 0.80	$ -
26.50	Feb 24	8	$ 5,585.47	186.930	$ 29.88	$ 4,953.65	$ 631.83	Brown 3 was on outage, Brown 4 and Culley 2 were on Reserve Shutdown	177	9.93	$ 33.56	87	62.04	YES	100	-	$ 3.38	$ -
26.50		9	$ 4,901.09	177.640	$ 27.59	$ 4,707.46	$ 193.63		177	0.64	$ 0.70	87	62.04	YES	100	-	$ 1.09	$ -
26.50		10	$ 5,417.84	200.290	$ 27.05	$ 5,307.69	$ 110.16		177	23.29	$ 12.81	87	62.04	YES	100	-	$ 0.55	$ -
26.50		18	$ 5,456.36	192.600	$ 28.33	$ 5,103.90	$ 352.46		177	15.60	$ 28.55	87	62.04	YES	100	-	$ 1.83	$ -
26.50		19	$ 13,240.98	256.380	$ 51.65	$ 6,794.07	$ 6,446.91		177	79.38	$ 1,996.08	87	62.04	YES	100	-	$ 25.15	$ -
26.50		20	$ 6,496.85	221.820	$ 29.29	$ 5,878.23	$ 618.62		177	44.82	$ 125.00	87	62.04	YES	100	-	$ 2.79	$ -
26.50		21	$ 8,892.42	204.800	$ 43.42	$ 5,427.20	$ 3,465.22		177	27.80	$ 470.38	87	62.04	YES	100	-	$ 16.92	$ -
26.50		22	$ 5,096.92	191.830	$ 26.57	$ 5,083.50	$ 13.42		177	14.83	$ 1.04	87	62.04	YES	100	-	$ 0.07	$ -
26.50	Feb 25	8	$ 3,742.43	130.900	$ 28.59	$ 3,468.85	$ 273.58	Brown 3 was on outage, Brown 4 and Culley 2 were on Reserve Shutdown	177	-	$ -	87	62.04	YES	100	-	$ 2.09	$ -
26.50		18	$ 1,509.36	55.840	$ 27.03	$ 1,479.76	$ 29.60		177	-	$ -	87	62.04	YES	100	-	$ 0.53	$ -
26.50		19	$ 12,913.43	204.130	$ 63.26	$ 5,409.45	$ 7,503.99		177	27.13	$ 997.32	87	62.04	YES	100	-	$ 36.76	$ -
26.50		20	$ 5,094.16	168.490	$ 30.23	$ 4,464.99	$ 629.18		177	-	$ -	87	62.04	YES	100	-	$ 3.73	$ -
26.50	Feb 26	6	$ 7,151.55	252.000	$ 28.38	$ 6,678.00	$ 473.55	Brown 3 was on outage, Brown 4 and Culley 2 were on Reserve Shutdown	177	75.00	$ 140.94	87	62.04	YES	100	-	$ 1.88	$ -
26.50		7	$ 10,496.73	262.210	$ 40.03	$ 6,948.57	$ 3,548.17		177	85.21	$ 1,153.04	87	62.04	YES	100	-	$ 13.53	$ -
26.50		8	$ 14,264.99	298.700	$ 47.76	$ 7,915.55	$ 6,349.44		177	121.70	$ 2,586.97	87	62.04	YES	100	34.70	$ 21.26	$ 110.64
26.50		9	$ 6,210.22	194.800	$ 31.88	$ 5,162.20	$ 1,048.02		177	17.80	$ 95.76	87	62.04	YES	100	-	$ 5.38	$ -
26.50		10	$ 5,160.56	191.700	$ 26.92	$ 5,080.05	$ 80.51		177	14.70	$ 6.17	87	62.04	YES	100	-	$ 0.42	$ -
26.50		18	$ 5,593.02	192.200	$ 29.10	$ 5,093.30	$ 499.72		177	15.20	$ 39.52	87	62.04	YES	100	-	$ 2.60	$ -
26.50		19	$ 9,663.16	291.310	$ 33.17	$ 7,719.72	$ 1,943.45		177	114.31	$ 762.61	87	62.04	YES	100	27.31	$ 6.67	$ 27.33
26.50		20	$ 8,473.49	248.100	$ 34.15	$ 6,574.65	$ 1,898.84		177	71.10	$ 544.17	87	62.04	YES	100	-	$ 7.65	$ -
26.50		21	$ 142.21	3.020	$ 47.09	$ 80.03	$ 62.18		177	-	$ -	87	62.04	YES	100	-	$ 20.59	$ -
27.44	Feb 27	7	$ 5,653.58	170.700	$ 33.12	$ 4,683.67	$ 969.91	Brown 3 was on outage, Brown 4 and Culley 2 were on Reserve Shutdown	177	-	$ -	87	62.04	YES	100	-	$ 5.68	$ -
27.44		8	$ 7,062.66	184.500	$ 38.28	$ 5,062.31	$ 2,000.35		177	7.50	$ 81.32	87	62.04	YES	100	-	$ 10.84	$ -
27.44		19	$ 6,996.89	223.400	$ 31.32	$ 6,129.65	$ 867.24		177	46.40	$ 180.13	87	62.04	YES	100	-	$ 3.88	$ -
27.44		20	$ 6,130.57	221.400	$ 27.69	$ 6,074.77	$ 55.80		177	44.40	$ 11.19	87	62.04	YES	100	-	$ 0.25	$ -
26.63	Feb 28	7	$ 3,911.17	142.900	$ 27.37	$ 3,804.71	$ 106.46	Brown 3 was on outage, Brown 4 and Culley 2 were on Reserve Shutdown	177	-	$ -	87	62.04	YES	100	-	$ 0.74	$ -
26.63		8	$ 6,288.40	178.800	$ 35.17	$ 4,760.55	$ 1,527.85		177	1.80	$ 15.38	87	62.04	YES	100	-	$ 8.55	$ -
26.63		9	$ 7,822.05	250.580	$ 31.22	$ 6,671.69	$ 1,150.36		177	73.58	$ 337.79	87	62.04	YES	100	-	$ 4.59	$ -
26.63		10	$ 5,032.09	173.700	$ 28.97	$ 4,624.76	$ 407.33		177	-	$ -	87	62.04	YES	100	-	$ 2.35	$ -
26.63		11	$ 5,589.37	170.200	$ 32.84	$ 4,531.58	$ 1,057.80		177	-	$ -	87	62.04	YES	100	-	$ 6.22	$ -
26.63		12	$ 4,864.46	159.700	$ 30.46	$ 4,252.01	$ 612.45		177	-	$ -	87	62.04	YES	100	-	$ 3.83	$ -
26.63		14	$ 4,209.98	157.500	$ 26.73	$ 4,193.44	$ 16.54		177	-	$ -	87	62.04	YES	100	-	$ 0.11	$ -
26.63		18	$ 6,340.05	176.800	$ 35.86	$ 4,707.30	$ 1,632.75		177	-	$ -	87	62.04	YES	100	-	$ 9.24	$ -
26.63		19	$ 17,641.75	291.620	$ 60.50	$ 7,764.38	$ 9,877.37		177	114.62	$ 3,882.26	87	62.04	YES	100	27.62	$ 33.87	$ 140.33
26.63		20	$ 11,517.91	265.180	$ 43.43	$ 7,060.42	$ 4,457.49		177	88.18	$ 1,482.24	87	62.04	YES	100	1.18	$ 16.81	$ 2.98
26.63		21	$ 9,172.27	271.420	$ 33.79	$ 7,226.56	$ 1,945.71		177	94.42	$ 676.86	87	62.04	YES	100	7.42	$ 7.17	$ 7.98
26.63		22	$ 16,987.54	271.100	$ 62.66	$ 7,218.04	$ 9,769.50		177	94.10	$ 3,391.04	87	62.04	YES	100	7.10	$ 36.04	$ 38.38
26.63		23	$ 2,956.30	44.170	$ 66.93	$ 1,176.03	$ 1,780.27		177	-	$ -	87	62.04	YES	100	-	$ 40.31	$ -
27.88	Feb 29	1	$ 2,435.65	79.900	$ 30.48	$ 2,227.21	$ 208.44	Brown 3 was on outage, Brown 4 and Culley 2 were on Reserve Shutdown	177	-	$ -	87	62.04	YES	100	-	$ 2.61	$ -
27.88		3	$ 3,290.24	89.430	$ 36.79	$ 2,492.86	$ 797.38		177	-	$ -	87	62.04	YES	100	-	$ 8.92	$ -
27.88		4	$ 1,542.10	38.820	$ 39.72	$ 1,082.11	$ 459.99		177	-	$ -	87	62.04	YES	100	-	$ 11.85	$ -
27.88		6	$ 8,044.92	252.350	$ 31.88	$ 7,034.26	$ 1,010.66		177	75.35	$ 301.78	87	62.04	YES	100	-	$ 4.01	$ -
27.88		7	$ 12,271.13	283.660	$ 43.26	$ 7,907.02	$ 4,364.11		177	106.66	$ 1,640.96	87	62.04	YES	100	19.66	$ 15.38	$ 45.37
27.88		8	$ 17,704.17	304.300	$ 58.18	$ 8,482.36	$ 9,221.81		177	127.30	$ 3,857.82	87	62.04	YES	100	40.30	$ 30.30	$ 183.19
27.88		9	$ 9,865.47	284.800	$ 34.64	$ 7,938.80	$ 1,926.67		177	107.80	$ 729.27	87	62.04	YES	100	20.80	$ 6.76	$ 21.11

CenterPoint Energy Indiana - South
Market Settlements Group
Purchased Power Over Benchmark Explanations - February - Cause No. 38708 FAC 143

S55's through 2/29

Feb Benchmark Costs	Trade Date	HE	Cost of Purchased Power	Purchases Volume	Price	Purchases Volume @ Benchmark $	Amount Over Benchmark $	Reason for Purchasing Power	Available Capacity of Units Not Selected	MISO Economic Dispatch / Purchased MWs above Capacity	Purchase Power Costs at Risk	Test for Outages and Derates: MWs Out of Service	11% of Summer Rated Capacity	Are Unit MWs Out of Service > 11% Summer Capacity?	Recoverable @ 0%, 85%, or 100%	MWs Subject to 85%-15%	Over Benchmark Price	Total Unrecoverable Dollars
27.88		18	$ 7,042.08	186.200	$ 37.82	$ 5,190.33	$ 1,851.76		177	9.20	$ 91.49	87	62.04	YES	100	-	$ 9.94	$ -
27.88		19	$ 10,082.98	225.570	$ 44.70	$ 6,287.76	$ 3,795.22		177	48.57	$ 817.19	87	62.04	YES	100	-	$ 16.83	$ -
27.88		20	$ 7,351.48	189.130	$ 38.87	$ 5,272.00	$ 2,079.48		177	12.13	$ 133.37	87	62.04	YES	100	-	$ 10.99	$ -
27.88		21	$ 6,579.76	209.280	$ 31.44	$ 5,833.68	$ 746.08		177	32.28	$ 115.08	87	62.04	YES	100	-	$ 3.56	$ -
27.88		22	$ 6,047.37	192.530	$ 31.41	$ 5,366.77	$ 680.60		177	15.53	$ 54.90	87	62.04	YES	100	-	$ 3.54	$ -
									-	-								
Total			$ 1,275,277.07	34,896.340		$ 984,937.23	$ 290,339.96		35,598.000	6,779.100	$ 62,179.32	12,189.000				906.180		$ 1,810.84

CONFIDENTIAL Attachment FSB-2

Natural Gas Purchases for the Period of December 2023 and January and February 2024

The foregoing Attachment is confidential and trade secret and will be provided under seal to the Commission.