

**STATE OF INDIANA**

**INDIANA UTILITY REGULATORY COMMISSION**

**SUBDOCKET FOR REVIEW OF )  
INDIANAPOLIS POWER & LIGHT )  
COMPANY D/B/A AES INDIANA'S 2021 ) CAUSE NO. 38703 FAC 133 S1  
EXTENDED FORCED OUTAGE AT EAGLE )  
VALLEY AND ITS RELATED IMPACT ON )  
FUEL PROCUREMENT AND FUEL COSTS. )**

**SUBMISSION OF EV STATUS REPORT**

Petitioner, Indianapolis Power & Light Company d/b/a AES Indiana, by counsel, hereby submits its EV Status Report in accordance with the Commission's February 18, 2022 Docket Entry in this Cause.

Respectfully submitted,



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## **CERTIFICATE OF SERVICE**

The undersigned hereby certifies that a copy of the foregoing was served this 15th day of March, 2022, by email transmission, hand delivery or United States Mail, first class, postage prepaid to:

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## **Eagle Valley Combined Cycle Gas Turbine (CCGT)**

### **Third Status Report | March 15, 2022**

The Eagle Valley CCGT plant ("Eagle Valley") is a 671 MW gas-fired facility located in Morgan County, Indiana. The plant consists of two GE 7FA.05 gas turbines, associated Nooter Eriksen heat recovery steam generators, and a Toshiba steam turbine. This report updates the Indiana Utility Regulatory Commission and stakeholders on the Company's efforts to return the CCGT to service following the forced outage reported previously.

#### **STATUS OF EAGLE VALLEY REPAIRS**

The full extent of repairs and recommended actions have been finalized. Three main areas have been identified for repairs: Cold Reheat Piping, Turbine and Control System. Below is an update on the status of these repairs:

##### **Cold Reheat Piping**

The repair of this piping involved fabricating, hanging, and fitting of a new section of piping, as well as repairing the valves and replacing the cold reheat steam pot. The reheat line repair has been completed.

##### **Turbine**

Repairs of the turbine involved components in the high-pressure (HP) and intermediate-pressure (IP) sections. All repairs to the IP section are complete. Major repairs to the stationary steam path components of the HP are complete. New rotor blades have been installed on the last four stages of the HP section. The rotor machining repairs and high-speed balance have been completed and the rotor has been installed in the unit. Final assembly of the HP/IP sections of the turbine have been completed. The HP section shell has been heat-treated for stress relief and new hardware has been installed to close the HP shell. Reassembly of the turbine has been completed.

##### **Control Systems**

As mentioned in the February status report filed on February 9, 2022, AES Indiana contracted with Kiewit and Stag Controls and enlisted AES control system experts to review the control narratives, logic, and loops, identify issues, and make recommendations. The review teams provided recommendations to the control narratives, control logic, and plant operating procedures. The implementation of these recommendations has been completed and the control system is being tuned.

As a follow-up from the field ground event, the independent engineering review of the 41E Open Signal Circuit hardwired interlocks and TOSMAP programming interlocks for effective redundancy and compliance with IEEE and industry standards was completed. The Company is in the process of working with Toshiba to review the incident and the independent engineering review to determine if any design changes are necessary. Toshiba's review of logic and formalized response is pending.

AES Indiana, assisted by Kiewit and Sargent and Lundy, has implemented a change in the protection system that will open the Excitation Transformer Breaker (5A Breaker) in the event the 86G Lockout Relay activates and the Field Breaker fails to open. This change will protect the Field in the event the Field Breaker (41E Breaker) fails to open when called upon.

#### **STATUS OF ROOT CAUSE ANALYSIS (RCA)**

The Company is working to finalize the written Root Cause Analysis report by early April 2022 and relevant cost and related MISO data should be available by late April 2022. This timeline should enable the Company to prefile its case-in-

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chief testimony on or before May 31, 2022, so that the Commission may timely consider the subject matter of this subdocket in its complete context. Also, to facilitate understanding of the technical information in the RCA, the Company proposes to invite the OUCC and intervenors (and Commission representative if appropriate) to an onsite technical conference the beginning of May 2022 at which time the Company will review the RCA with the other parties and provide them an opportunity to tour the site.

**TIMELINE MOVING FORWARD**

The CCGT will return to service this month. The physical repairs have been completed. The Company has begun tuning activities and will be bringing the plant back into service once tuning has been completed. The facility has successfully completed its full load capacity test with both gas turbines and the steam turbine in service. The plant is currently operating with one gas turbine and the steam turbine. The second gas turbine is being cooled to prepare it for additional cold start tuning changes.