#### **BEFORE THE PUBLIC SERVICE COMMISSION OF THE STATE OF MISSOURI NOTICE OF COMMUNICATION**

COMES NOW Kansas City Power & Light Company ("KCP&L") and KCP&L Greater

Missouri Operations Company ("GMO")(collectively, the "Company") and for its Notice of

Meeting states as follows:

The Company files this Notice of Meeting in all of its contested cases pending before the

Missouri Public Service Commission ("Commission"). The Office of the Public Counsel was

invited pursuant to 4 CSR 240-4.017(3) and attended.

<b>Event:</b>	Iatan Meeting and Tour with MoPSC and OPC
Date/Time:	Friday, July 26, 2019 @ 11:30 a.m.
Location:	Iatan Generating Station 20250 State Route 45 N, Weston, MO 64098

#### **<u>Attendees included the following:</u>**

<u>Missouri Public Service Commission</u> :	Ryan Silvey Jeremy Juiliette Jared Giacone Karen Bretz Morris Woodruff Nancy Dippell Jennie Wells Doug Fear Helen Davis Michae'l Fortson Amanda Coffer Valerie Groose Annabelle Attias Michael Rush	Chairman Staff Auditor Staff Auditor Staff Counsel Chief Regulatory Law Judge Regulatory Law Judge External Litigation Staff Services Budget and Fiscal Services Budget and Fiscal Services Engineering Analysis External Litigation Staff Counsel Critical Infrastructure Safety Engineer
Office of Public Counsel:	Marc Poston John Robinett	Public Counsel Utility Engineering Specialist
Company Personnel:	Kevin Bryant John Bridson Mark Howell Don Hughes Roger Steiner Matt Dority	Chief Operating Officer VP Generation Iatan Plant Manager Iatan Unit Director Corporate Counsel Director Regulatory Affairs

A copy of PowerPoint presentation presented to the attendees is attached.

Respectfully submitted,

#### Is Robert 9. Hack

Robert J. Hack, MBN 36496 Phone: (816) 556-2791 E-mail: rob.hack@kcpl.com Roger W. Steiner, MBN 39586 Phone: (816) 556-2314 E-mail: roger.steiner@kcpl.com Kansas City Power & Light Company 1200 Main – 19th Floor Kansas City, Missouri 64105 Fax: (816) 556-2110

#### ATTORNEYS FOR KANSAS CITY POWER & LIGHT COMPANY AND KCP&L GREATER MISSOURI OPERATIONS COMPANY

#### **CERTIFICATE OF SERVICE**

The undersigned certified that a true and correct copy of the foregoing document was sent by electronic transmission, facsimile, U.S. Mail or e-mail to all parties of record in all of its contested cases pending before the Missouri Public Service Commission on this 29<sup>th</sup> day of July 2019.

[s] Robert J. Hack

Robert J. Hack



# Iatan Generating Station



Mark Howell Plant Manager





# Welcome to latan Generating Station







Safety

# PLEASE:

- Wear PPE: glasses, hat, safety toes, long sleeves, hearing protection
- Do not separate from group
- Do not touch
- Stay clear of areas with red flashing lights, safety tape and warning signs
- Equipment can start without warning
- Evacuation procedures
- Ammonia is on site







#### **Common Facts**

- latan Nickname of OTOE tribe Chief who lived from 1780 1837
- Approximately 3000 acres for site
- latan provides 33% of GPE's coal fired net generation and can supply enough electricity to serve approximately 1,000,000 homes
- latan has a coal inventory of 1.1 M Tons. We consume 20,000T of coal a day with both units at full load.
- 135 car DP trains deliver 16,000 Tons of coal per cycle. It takes 5 6 hours to unload a train.





#### Common

- latan is one of the cleanest coal stations in the country
- FGD system removes > 95% of the SO2 in the flue gas
- SCR removes 50% / 66 % of the NOx
- Hg is removed with PAC and FGD to >90%, <210 lb/year
- Particulate is controlled with Fabric Filters, >99% removal
- Iatan AQCS and Unit 2 were designed as a Zero Liquid Discharge facilities





#### Unit 1

- Commercial operation in 1980. 705 MW net generation
- Unit 1 burns 8,500 tons of coal per day
- Babcock & Wilcox subcritical boiler, General Electric Turbine/Generator
- Main Steam Conditions 4,900,000 pph @ 2,400 psi, 1005 deg. F.
- Condenser cooling from the Missouri River 300,000 gpm





#### Unit 2

- Commercial operation in 2010. 850 MW net generation
- Unit 2 burns 11,000 tons of coal per day
- Alstom Supercritical Boiler, Toshiba Turbine/Generator
- Boiler Efficiency is 37.9% compared to the average of 30.8% reducing CO2 emissions by 1.3 million tons/year
- Main Steam Conditions 6,200,000 pph @ 3,600 psi, 1080 deg. F.
- Condenser cooling from well water circulated through a cooling tower





### **Iatan Station - Overview**

Unit	Year Completed	Location	Energy Source	Total MW	KCP&L MW	GMO MW	GPE MW	Operator	Other Owners
latan 1	1980	latan, MO	Coal	705	<b>494</b> 70%	127 18%	620 <sup>88%</sup>	Kansas City Power & Light	Empire District Electric - EDE (85 MW)
latan 2	2010	latan, MO	Coal	850	465 54.7%	153 18%	618 72.7%	Kansas City Power & Light	EDE (102 MW), KEPCO (30 MW) and Missouri Joint Municipal Electric Utility Commission - MJMEUC (100 MW)

#### latan 1

Retrofit installation of a new air quality control system (AQCS) on existing unit Sub-critical PC generating unit optimizing use of existing plant infrastructure

#### latan 2

New 850 MW super critical pulverized coal (PC) generating unit Permit, design, construction, startup, testing and operational in-service





#### **Fuel Yard Overview**















## Animations

#### • latan

#### Unit 2

http://wwwi.kcpl.com/genweb/operations-programs/training/animations/flash/iatan/i2-steam-and-water-cycle.swf?636220717503673837

#### Unit 1

http://wwwi.kcpl.com/genweb/operations-programs/training/animations/flash/iatan/i1-steam-and-watercycle.swf?636220799680094173

#### • Boiler cycle

https://vimeo.com/50557100







# >> evergy









# **Pulverizers**











# Unit 1 Turbine-Generator

### January 2010

Turbine Generator, Toshiba





#### December 2009











### latan Flood 2019

# >> evergy.

-66

















# Mission Creek starts to overtop













# March 22 – Wetlands flooded











# March 25 Busing and boating





































<u>St Joseph Gauge</u> 32.12' 3/22/19 32.07' 7/26/93 29.97' 6/28/11







## **Tour Route**

- Please be safe
- Please stay close to the group
- Open grating

