



**Significant Air Environmental
Rule Impacts on KCP&L**
Presented to
Senate Utilities Committee

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Significant Air Environmental Rule Impacts

Discussion Agenda

- Cross-State Air Pollution Rule (SO₂ and NO_x)
- Power Plant Mercury and Air Toxics Standards (mercury, metals, acid gases)
- 2010 SO₂ National Ambient Air Quality Standard (SO₂)

Cross-State Air Pollution Rule

KCP&L compliance activities during stay:

- ❑ Continued installation of La Cygne Station environmental emission controls.
- ❑ Plans for installation of additional NOx controls (burners and over fire air) at Montrose Units 2 and 3 this spring.
- ❑ Plans for implementing various options when compliance with rule is again required, including but not limited to, reducing annual generation and fuel switching to lower sulfur coal and achieving greater reduction when possible from existing controls.
- ❑ With these actions and others, KCP&L does not anticipate electricity supply issues in KCP&L's service territory to maintain compliance with the Cross-State Air Pollution Rule when compliance is again required.

Power Plant Mercury and Air Toxics Standards

KCP&L units minimally impacted because emission controls needed for compliance installed or in process of installation:

❑ Iatan Units 1 and 2, La Cygne Units 1 and 2, and Hawthorn Unit 5 (except for mercury control).

KCP&L units potentially impacted:

❑ Montrose Units 1, 2 and 3; Sibley Units 1, 2 and 3; and Lake Road Boiler 6/Unit 4 - mercury control (activated carbon injection), particulate matter control (improved precipitators or baghouses), and potentially dry sorbent injection (acid gases) under review.

❑ KCP&L is reviewing the compliance options associated with the Mercury and Air Toxics Standards and developing a compliance strategy but does not currently anticipate electricity supply issues in KCP&L's service territory to comply with the rule.

2010 SO₂ National Ambient Air Quality Standard

KCP&L units anticipated to be minimally impacted because emission controls needed for compliance installed or in process of installation:

- ❑ Iatan Units 1 and 2, La Cygne Units 1 and 2, and Hawthorn Unit 5.

KCP&L units potentially impacted:

- ❑ Montrose Units 1, 2 and 3; Sibley Units 1, 2 and 3; and Lake Road Boiler 6/Unit 4 - scrubbers or other SO₂ controls potentially required depending on modeling studies which are being conducted to determine impact.
- ❑ KCP&L is participating in the modeling studies which will result in compliance options with the SO₂ Standard but does not currently anticipate electricity supply issues in KCP&L's service territory to comply with the rule.

QUESTIONS