

STEAM ELECTRIC ELG RULEMAKING

UMRA AND FEDERALISM IMPLICATIONS:
CONSULTATION MEETING

SUPPLEMENTAL INFORMATION

October 11, 2011



TECHNOLOGIES UNDER CONSIDERATION & PRELIMINARY COMPLIANCE COSTS

(Costs for plant capacity of 50-600 MW)

- **FGD wastewater**
 - Option 1: No change to ELG (*No cost*)
 - Option 2: Chemical precipitation (*\$0.9 - \$3.2 million/yr*)
 - Option 3: Chemical precipitation + Biological (*\$1.7 - \$4.5 million/yr*)
 - Option 4: Chemical precipitation + Evaporation (*\$4.2 - \$10.2 million/yr*)

- **Leachate from landfills/ponds containing coal combustion residues**
 - Option 1: No change to ELG (*No cost*)
 - Option 2: Chemical precipitation (*\$0.5 - \$1.6 million/yr*)
 - Option 3: Chemical precipitation + Biological (*\$1.1 - \$2.5 million/yr*)

Note: The costs shown are for a new treatment system and do not take into account the savings associated with ceasing operation of an existing treatment system (e.g., avoiding construction of a new settling pond or ceasing operation of an existing settling pond designed to comply with current effluent limits for total suspended solids).

TECHNOLOGIES UNDER CONSIDERATION & PRELIMINARY COMPLIANCE COSTS

(Costs for plant capacity of 50-600 MW)

- **Fly ash**
 - Option 1: No change to ELG (*No cost*)
 - Option 2: Zero discharge of fly ash transport water, based on conversion to dry fly ash transport (*\$0.3 - \$2.2 million/yr*)

- **Bottom ash**
 - Option 1: No change to ELG (*No cost*)
 - Option 2: Zero discharge of bottom ash transport water, based on either complete recycle of transport water or conversion to dry bottom ash transport (*\$0.9 - \$3 million/yr*)

Note: The costs shown are for a new treatment system do not take into account the savings associated with ceasing operation of an existing treatment system (e.g., avoiding construction of a new settling pond or ceasing operation of an existing settling pond designed to comply with current effluent limits for total suspended solids).

TECHNOLOGIES UNDER CONSIDERATION & PRELIMINARY COMPLIANCE COSTS

(Costs for plant capacity of 50-600 MW)

- **Flue gas mercury control wastes (e.g., activated carbon injection)**
 - **Option 1: No change to ELG (*no cost*)**
 - **Option 2: Zero discharge, based on dry handling practices (*minimal cost, if any*)**

- **Gasification wastewater**
 - **Option 1: No change to ELG (*no cost*)**
 - **Option 2: Evaporation (*no cost*)**
 - **Option 3: Evaporation + Cyanide destruction (*minimal cost*)**