

ABBREVIATIONS

ABS - Ammonium bisulfate - NH_4HSO_4

AEGI - Amine Enhanced Gas Injection

AGR - Advanced Gas Reburning

AH-SCR - Air Heater Selective Catalytic Reduction

AIG - Ammonia Injection Grid

AS - Ammonium sulfate - $(\text{NH}_4)_2\text{SO}_4$

BACT - Best Available Control Technology

BOOS - Burners Out of Service

Btu - British thermal unit

CAAA90 - Clean Air Act Amendments of 1990

CaCO₃ - Calcium Carbonate (limestone)

CaO - Calcium Oxide (lime)

Cascade - SNCR/SCR Hybrid

CaSO₃ - Calcium Sulfite

CaSO₄ - Calcium Sulfate

CaSO₄·2H₂O - Gypsum

CCOFA - Closed-Coupled Overfire Air

CEM - Continuous Emissions Monitor

CFD - Computational Fluid Dynamics

CKM - Chemical Kinetic Model

CO - Carbon Monoxide

CO₂ - Carbon Dioxide

CO(NH)₂ - Urea

CR - Coal Reburning

CTR - Combustion Controls

DOE - Department of Energy

EPA - Environmental Protection Agency

EPRI - Electric Power Research Institute

ESP - Electrostatic Precipitator

FCC - Fixed Charge on Capital

FEGT - Furnace Exit Gas Temperature

FF - Fabric Filter

FGD - Flue gas Desulfurization

FLGR - Fuel Lean Gas Reburn

GR - Gas Reburn

H₂O - Water

H₂SO₃ - Sulfurous Acid

HSR - Hybrid Selective Reduction

IPPs - Independent Power Producers

kW - Kilowatt

kWh - Kilowatt hour

LAER - Lowest Achievable Emission Rate

L/G - Liquid to gas ratio

LNB - low-NOx Burners

LNCB - low-NOx Cell Burners

LNCFS - low-NOx Concentric Firing System

LOI - Loss of Ignition

LPA - Large Particulate Ash

MMBtu - Million Btu

MWe - Megawatt of Electrical Generation (generator gross output)

N₂ - Nitrogen

NGR - Natural Gas Reburn

NH₃ - Ammonia

(NH₄)₂SO₄ - Ammonium Sulfate (AS)

NH₄HSO₄ - Ammonium Bisulfate (ABS)

NO - Nitric Oxide

NOx - Nitrogen Oxides (NO + NO₂)

NOxOUT - SNCR Technology designed by Fuel-Tech N.V.

NPDES - National Pollutant Discharge Elimination System

NSPS - New Source Performance Standards

NSR - New Source Review

NUG - Non-Utility Generator

O&M - Operation & Maintenance

OEM - Original Equipment Manufacturer

OFA - Over Fire Air

OLF - Operating Costs Levelization Factor

ppm - Parts per million

psig - Pounds per square inch gauge

PRB - Powder River Basin Coal

RACT - Reasonably Available Control Technology

SCR - Selective Catalytic Reduction for NOx Control, Silicon Controlled Rectifier for Particulate Control Circuits

SNCR - Selective Non-Catalytic Reduction

SOFA - Separated Overfire Air

SO₂ - Sulfur Dioxide

SO₃ - Sulfur Trioxide

SOx - Sulfur Oxides

TiO₂ - Titanium Dioxide

V₂O₃ - Vanadium Pentoxide

WO₃ - Tungsten Trioxide