

EPA NSPS Compliance Dossier — ADK MnX1

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Pilot-ready / seeking partner plants — ADK MnX1 is in development-stage field testing; published performance figures reflect results from ongoing partner-plant trials.

ADK MnX1 is a manganese-based liquid combustion catalyst applied to coal feed or boiler inlet. It promotes more complete combustion and reduces emissions of SO₂, SO_f, NO_x, and particulate matter without modifying existing equipment.

Under EPA NSPS Subpart UUUUU (MATS) for new and existing coal- and oil-fired EGU units, the applicable emission limits for SO₂, NO_x, HCl, Hg, and PM depend on unit size, configuration, and rank of coal. Operators must demonstrate continuous compliance through emissions monitoring, periodic stack testing, and reporting of 30-day rolling averages.

ADK MnX1 supports compliance posture by reducing stack emissions at the burner rather than relying solely on downstream control equipment. Pre/post burn testing during a 30-day trial quantifies the per-pollutant delta and provides a defensible engineering record for the operating permit file.

Independent third-party verification of pre/post burn results is included with every trial. Dosing rates are tuned to the operator's coal grade and boiler configuration; supply commitments follow demonstrated performance, not the reverse.

For MATS-affected units approaching a control-equipment retrofit decision, ADK MnX1 can defer or downsize downstream capex (scrubbers, SCR, baghouses) while the operator evaluates permanent stack-gas controls.

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