



národní
úložiště
šedé
literatury

Development of a Pilot Plant for Reduction Hg Emission from Large Power Plant.

Pilař, L.
2017

Dostupný z <http://www.nusl.cz/ntk/nusl-369642>

Dílo je chráněno podle autorského zákona č. 121/2000 Sb.

Tento dokument byl stažen z Národního úložiště šedé literatury (NUŠL).

Datum stažení: 19.05.2024

Další dokumenty můžete najít prostřednictvím vyhledávacího rozhraní nusl.cz .

DEVELOPMENT OF A PILOT PLANT FOR REDUCTION Hg EMISSION FROM LARGE POWER PLANT

Pilař L.¹, Veselý V.², Vlček Z.¹, Zseliga Z.³

¹ÚJV Řež, a.s. divize ENERGOPROJEKT PRAHA, Na Žertvách 2247/29, 180 00 Prague, Czech republic

²Ústav chemických procesů AV ČR, v. v. i., Rozvojová 135, 16500 Prague – Lysoláje, Czech republic

³Vysoká škola báňská – Technická univerzita Ostrava, 17. Listopadu, 70800 Ostrava – Poruba, Czech republik

This paper deals with the research project "The development of the pilot plant for monitoring of the mercury emissions reduction from large and medium capacity energy sources". The project responds to currently incoming EU legislation BAT, which sets emission limits of mercury concentration in flue gases. In this paper are presented project results reached in the year 2016. The main goals of the project in the year 2016 were design and construction of the pilot plant unit followed by consequent successful commissioning at the Tusimice Power Station. The designed pilot unit processes flue gases from combustion of lignite and the principle of operation is based on oxidation of atomic form Hg^0 to oxidized form Hg^{2+} using catalyst. Also a set of experimental measurements were done on the pilot unit, thus first results of experimental work are presented. Another part represents data of Hg distribution in large scale lignite and coal fired power plants gained by measurement tests.