

Incremental Documentation for EPA Platform v6 used for the Proposed ACE Rule

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1. Introduction

For the power sector analysis of the proposed ACE Rule, the EPA used an earlier version of the model that is slightly different than the version documented on EPA's Power Sector Modeling Platform v6 using IPM website.¹ This document catalogues the assumptions that differ from those published in the complete EPA Platform v6 documentation, and is applicable to modeling scenarios supporting the proposed ACE rule. Further discussion of these scenarios is available in the RIA for the proposed rule.

2. Differences from the Documentation for EPA's Power Sector Modeling Platform v6 Using the Integrated Planning Model

Section 3.3.4

A 2.8 percent inter-regional transmission loss of energy transferred is assumed for the ERCOT, Eastern and Western interconnects.

Section 3.9.2

The NO_x rates are based on 2016 ETS data. An exception is made for the Mode 2 and Mode 4 NO_x rates for fossil units with SCR in CSAPR UR states that are larger than 25 MW, which are based on 2017 ETS. The seasonal and annual operating mode of SCR/SNCR controls are based on their 2016 operating profiles unless the unit is affected by a future NO_x requirement.

Section 4.5.1

The nuclear uprates summarized in Table 4-35 are not implemented.

Section 9.3

The nuclear fuel price assumptions for 2021, 2023, 2025, 2030, 2035, 2040, 2045 and 2050 run years are 0.77, 0.77, 0.80, 0.83, 0.84, 0.84, 0.84, and 0.84 2016 \$/MMBtu, respectively.

¹ Full Documentation for EPA's Power Sector Modeling Platform v6 Using the Integrated Planning Model is available at: <https://www.epa.gov/airmarkets/epas-power-sector-modeling-platform-v6-using-ipm>