

UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549

FORM 10-K

(Mark One)

ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934 for the fiscal year ended December 31, 2020

TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934 for the transition period from \_\_\_\_\_ to \_\_\_\_\_

Commission File Number of issuing entity: 333-179092-01

Central Index Key Number of issuing entity: 0001539816

AEP Texas Central Transition Funding III LLC  
(Exact name of issuing entity as specified in its charter)

Commission File Number of depositor and sponsor: 333-179092

Central Index Key Number of depositor and sponsor: 0001721781

AEP Texas Inc.  
(Exact name of depositor and sponsor as specified in its charter)

Delaware  
(State or other jurisdiction of  
incorporation or organization)

51-0007707  
(I.R.S. Employer Identification No.)

539 N. Carancahua Street  
Suite 1700  
Corpus Christi, Texas  
(Address of principal executive offices)

78401  
(Zip Code)

Registrant's telephone number, including area code: (361) 881-5398

Securities registered pursuant to Section 12(b) of the Act: None

Securities registered pursuant to Section 12(g) of the Act: None

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act. Yes  No

Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Exchange Act. Yes  No

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes  No

Indicate by checkmark whether the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files). Yes  No

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting company, or an emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company" and "emerging growth company" in Rule 12b-2 of the Securities Exchange Act of 1934, as amended. Check One:

Large accelerated filer  Accelerated filer   
Non-accelerated filer  Smaller reporting company   
Emerging growth company

Indicate by check mark if the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act). Yes  No

The registrant does not have any voting or non-voting common equity held by non-affiliates.

Documents incorporated by reference: A portion of the proxy statement relating to the 2021 Annual Meeting of Shareholders of American Electric Power Company, Inc. is incorporated by reference in Item 11 of Part III of this report.