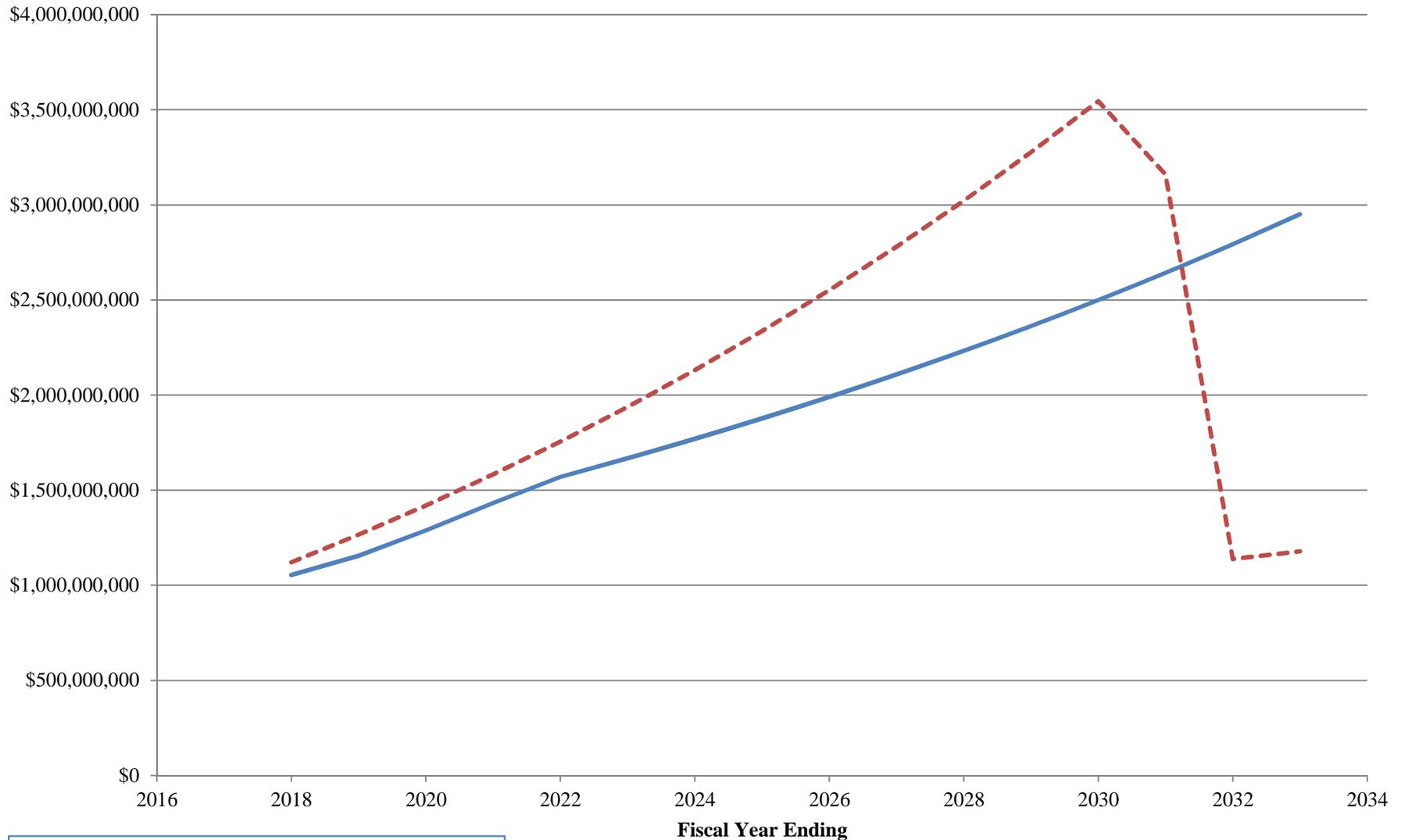


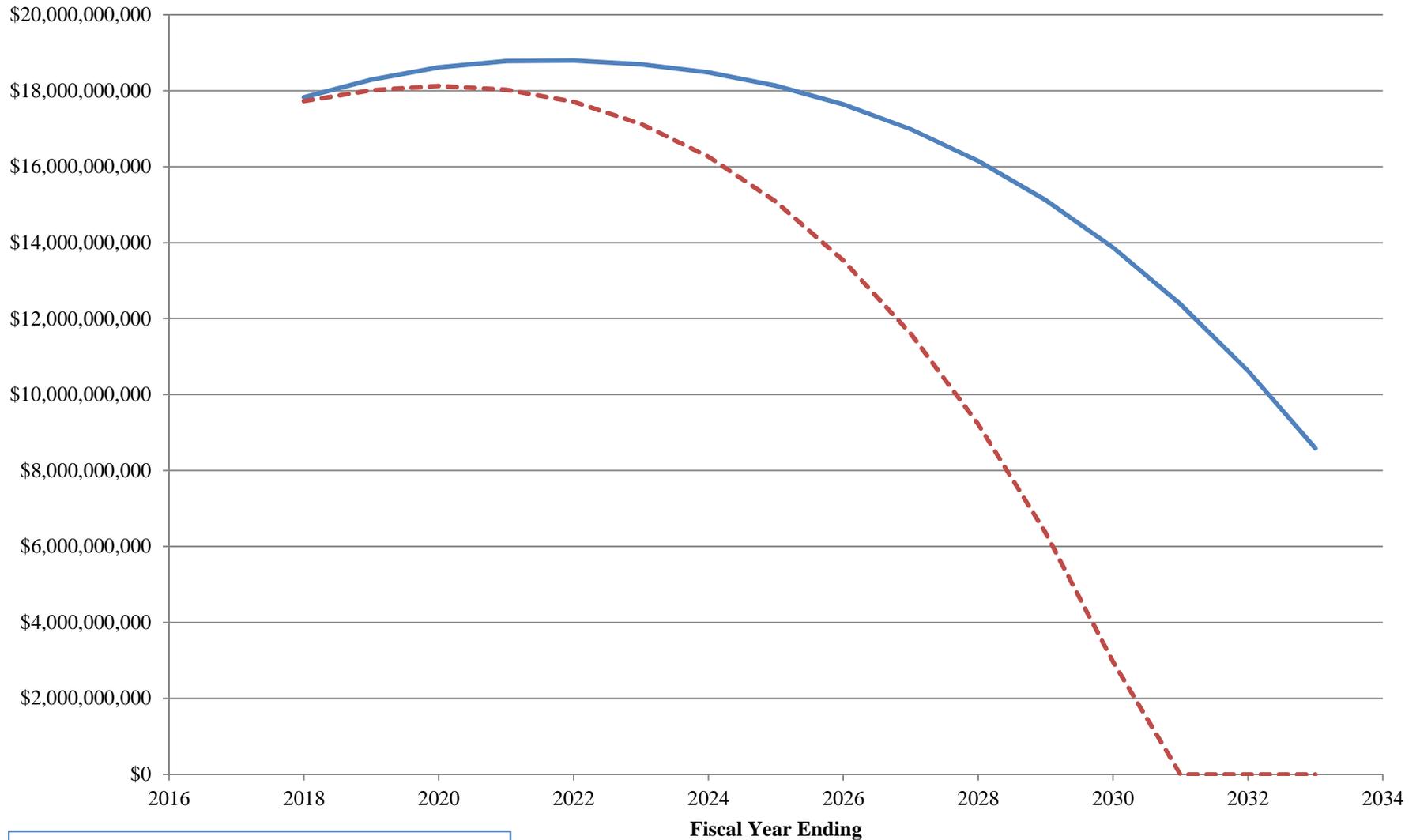
TSERS General Fund Contributions



Assumptions:
 Payroll growth rate of 3.5%
 Derived from 12/31/2015 valuation report
 ECRSP continues until UAL at 6.25% reaches zero

— Current Funding Policy - - - SB 467

TSERS Unfunded Liability at 6.25% Interest Rate



Assumptions:
 Payroll growth rate of 3.5%
 Derived from 12/31/2015 valuation report
 ECRSP continues until UAL at 6.25% reaches zero

— Current Funding Policy - - - SB 467

**SECTION 3: Supplemental Valuation Details for the North Carolina State Health Plan December 31, 2015
Measurement Under GASB 43 and 45**

EXHIBIT D

ARC and NOO Projection

Fiscal Research Comment:
Does not reflect \$10B
increase to liability
announced by Treasurer on
March 15, 2017

The following charts project the ARC and NOO through June 30, 2025 assuming a stable active population and that State contributions to the trust fund follow the current percent of pay methodology through the 2016 fiscal year and remain at 5.6% of pay thereafter. These contributions are expected to exceed transfers to the SHP by amounts similar to recent experience.

Actuarial Valuation Date	Actuarial Value of Assets (a)	Actuarial Accrued Liability (b)	Normal Cost (c)	Unfunded AAL (b) - (a)	30-Year Amortization (d)	Annual Required Contribution (c) + (d)
12/31/2016	\$1,022,012,217	\$35,261,914,505	\$1,309,861,707	\$34,239,902,288	\$1,264,827,688	\$2,574,689,395
12/31/2017	1,086,735,426	37,111,827,761	1,316,411,016	36,025,092,334	1,330,772,906	2,647,183,922
12/31/2018	1,154,375,661	38,983,589,362	1,329,575,126	37,829,213,701	1,397,417,449	2,726,992,575
12/31/2019	1,224,885,266	40,874,182,064	1,349,518,753	39,649,296,798	1,464,651,622	2,814,170,375
12/31/2020	1,298,367,995	42,787,993,964	1,376,509,128	41,489,625,969	1,532,633,688	2,909,142,816
12/31/2021	1,374,877,739	44,727,152,301	1,410,921,856	43,352,274,562	1,601,440,237	3,012,362,093
12/31/2022	1,454,360,670	46,688,830,940	1,453,249,511	45,234,470,270	1,670,968,859	3,124,218,370
12/31/2023	1,536,950,694	48,679,725,938	1,504,113,244	47,142,775,245	1,741,461,963	3,245,575,207
12/31/2024	1,622,752,313	50,705,660,873	1,564,277,774	49,082,908,560	1,813,130,810	3,377,408,584
12/31/2025	1,711,877,906	52,773,566,332	1,634,670,274	51,061,688,426	1,886,227,268	3,520,897,542

Fiscal Year End	Annual Required Contribution (a)	Interest on Existing NOO (b)	Adjustment (c)	Annual OPEB Cost (a) + (b) + (c) (d)	Projected Contribution Amount (e)	NOO as of Fiscal Year (f)
06/30/2017	\$2,574,689,395	\$745,466,257	(\$647,944,649)	\$2,672,211,003	\$1,026,237,992	\$19,186,355,540
06/30/2018	2,647,183,922	815,420,110	(708,747,166)	2,753,856,866	1,066,681,989	20,873,530,417
06/30/2019	2,726,992,575	887,125,043	(771,071,687)	2,843,045,930	1,135,758,117	22,580,818,230
06/30/2020	2,814,170,375	959,684,775	(834,139,183)	2,939,715,966	1,211,899,230	24,308,634,966
06/30/2021	2,909,142,816	1,033,116,986	(897,965,021)	3,044,294,781	1,292,836,918	26,060,092,829
06/30/2022	3,012,362,093	1,107,553,945	(962,664,166)	3,157,251,872	1,382,569,653	27,834,775,048
06/30/2023	3,124,218,370	1,182,977,940	(1,028,221,222)	3,278,975,088	1,479,290,684	29,634,459,452
06/30/2024	3,245,575,207	1,259,464,527	(1,094,701,864)	3,410,337,870	1,579,415,350	31,465,381,972
06/30/2025	3,377,408,584	1,337,278,734	(1,162,336,446)	3,552,350,872	1,683,798,944	33,333,933,900
06/30/2026	3,520,897,542	1,416,692,191	(1,231,361,065)	3,706,228,668	1,790,965,251	35,249,197,317