

*Table AR-5
Asset Renewal Circuit Breakers*

System Additions	Projected In-Service Year	Planning Zone	Need Category
Circuit breaker replacements	2014	Various	End of life, parts obsolescence (6 units) 138 kV
Circuit breaker replacements	2014	Various	Mechanism design issues (9 units) 69 kV
Circuit breaker replacements	2014	Various	Type U Bushings (4 units) 138kV
Circuit breaker replacements	2014	3	Type U Bushings (1 unit) 69kV
Circuit breaker replacements	2014	5	Over duty rating (1 unit) 138 kV
Circuit breaker replacements	2014	5	Thermal rating (1 unit) 138 kV
Circuit breaker replacements	2015	Various	Mechanism design issues (7 units) 69 kV
Circuit breaker replacements	2015	Various	End of life, parts obsolescence (10 units) 69 kV
Circuit breaker replacements	2015	Various	Type U Bushings (2 units) 69kV
Circuit breaker replacements	2015	Various	End of life, parts obsolescence (11 units) 138 kV
Circuit breaker replacements	2015	4	Type U Bushings (3 units) 138kV

*Table AR-5
Asset Renewal Circuit Breakers (continued)*

System Additions	Projected In-Service Year	Planning Zone	Need Category
Circuit breaker replacements	2015	4	Bushing flange oil leak (4 units) 345 kV
Circuit breaker replacements	2016	Various	Mechanism design issues (9 units) 69 kV
Circuit breaker replacements	2016	Various	End of life, parts obsolescence (3 units) 69 kV
Circuit breaker replacements	2016	Various	End of life, parts obsolescence (3 units) 138 kV
Circuit breaker replacements	2016	3	Bushing flange oil leak (3 units) 345 kV
Circuit breaker replacements	2017	Various	Mechanism design issues (7 units) 69 kV
Circuit breaker replacements	2017	Various	End of life, parts obsolescence (6 units) 69 kV
Circuit breaker replacements	2017	Various	End of life, parts obsolescence (9 units) 138 kV
Circuit breaker replacements	2018-2023	Various	Mechanism design issues (12 units) 69 kV
Circuit breaker replacements	2018-2023	Various	End of life, parts obsolescence (38 units) 69 kV
Circuit breaker replacements	2018-2023	Various	Mechanism design issues (3 units) 138 kV

*Table AR-5
Asset Renewal Circuit Breakers (continued)*

System Additions	Projected In-Service Year	Planning Zone	Need Category
Circuit breaker replacements	2018-2023	Various	End of life, parts obsolescence (37 units) 138 kV
Circuit breaker replacements	2018-2023	Various	Bushing flange oil leak (13 units) 345 kV
Circuit breaker replacements	2018-2023	Various	End of life, parts obsolescence (7 units) 345 kV