

*Table AR-5
Asset Renewal Circuit Breakers*

System Additions	Projected In-Service Year	Project Status	Planning Zone	Need Category
Circuit breaker replacements	2015	Planned	Various	Mechanism design issues (7 units) 69 kV
Circuit breaker replacements	2015	Planned	Various	End of life, parts obsolescence (10 units) 69 kV
Circuit breaker replacements	2015	Planned	Various	Type U Bushings (2 units) 69kV
Circuit breaker replacements	2015	Planned	Various	End of life, parts obsolescence (11 units) 138 kV
Circuit breaker replacements	2015	Planned	4	Type U Bushings (3 units) 138kV
Circuit breaker replacements	2015	Planned	4	Bushing flange oil leak (4 units) 345 kV
Circuit breaker replacements	2016	Planned	Various	Mechanism design issues (9 units) 69 kV
Circuit breaker replacements	2016	Planned	Various	End of life, parts obsolescence (3 units) 69 kV
Circuit breaker replacements	2016	Planned	Various	End of life, parts obsolescence (3 units) 138 kV
Circuit breaker replacements	2016	Planned	3	Bushing flange oil leak (3 units) 345 kV
Circuit breaker replacements	2017	Planned	Various	Mechanism design issues (7 units) 69 kV

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

System Additions	Projected In-Service Year	Project Status	Planning Zone	Need Category
Circuit breaker replacements	2017	Planned	Various	End of life, parts obsolescence (6 units) 69 kV
Circuit breaker replacements	2017	Planned	Various	End of life, parts obsolescence (9 units) 138 kV
Circuit breaker replacements	2018	Proposed	Various	End of life, parts obsolescence (10 units) 69 kV
Circuit breaker replacements	2018	Proposed	1	End of life, parts obsolescence (3 units) 115 kV
Circuit breaker replacements	2018	Proposed	Various	End of life, parts obsolescence (7 units) 138 kV
Racine	2018	Proposed	5	End of life, bushing leaks (2 units) 345 kV
Racine	2018	Proposed	5	End of life, live tank, free standing CTs (1 unit) 345 kV
Edgewater	2019	Proposed	4	End of life, bushing leaks (4 units) 345 kV
Edgewater	2019	Proposed	4	End of life, live tank, free standing CTs (2 units) 345 kV
Circuit breaker replacements	2019-2024	Proposed	Various	End of life, parts obsolescence, mechanism design issues (32 units) 69 kV
Circuit breaker replacements	2019-2024	Proposed	Various	End of life, parts obsolescence, mechanism design issues (4 units) 115kV

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

System Additions	Projected In-Service Year	Project Status	Planning Zone	Need Category
Circuit breaker replacements	2019-2024	Proposed	Various	End of life, parts obsolescence, mechanism design issues (35 units) 138kV
Circuit breaker replacements	2019-2024	Proposed	Various	End of life, parts obsolescence, mechanism design issues (9 units) 345kV