

Arc Flash Categories ATC Facilities
1-3-11

Substation	Voltage-Equipment	LDC Territory	Hazard/Risk Category (H/RC) Required minimum FR clothing rating					Minimum Approach Distance (ft)	Minimum Approach Distance at 4 cal/cm2 (ft)	Arc Flash Boundary At 1.2cal/cm ² (ft)
			1 (4Cal/cm ²)	2 (8Cal/cm ²)	3 (25Cal/cm ²)	4 (40Cal/cm ²)	X >(40Cal/cm ²)			
12TH AVE	69kV	Wisconsin Public Service	X					3.3	3.3	5.4
28_Street	138kV	We Energies	X					4.3	4.3	6.7
30TH AVE	69kV	Wisconsin Public Service	X					3.3	3.3	5.4
43_ST_N_TAP	138kV	We Energies	X					4.3	4.3	6.7
68TH STREET	138kV	We Energies	X					4.3	4.3	6.7
7TH STREET	138kV	7th Street	X					4.3	4.3	6.7
96TH STREET	138kV	We Energies	X					4.3	4.3	6.7
ACADEMY	69kV	Alliant Energy	X					3.3	3.3	5.4
ACADEMY	138kV	Alliant Energy	X					4.3	4.3	6.7
Academy	T31, tertiary, 4.16kV	Alliant Energy			X			1.3	2.5	4.6
ADAMS FRIENDSHIP	69kV	Alliant Energy	X					3.3	3.3	5.4
AGA	69kV	Madison Gas and Electric	X					3.3	3.3	5.4
AIR LIQUIDE	138kV	We Energies	X					4.3	4.3	6.7
ALBANY	138kV	Alliant Energy	X					4.3	4.3	6.7
ALBERS	138kV	We Energies	X					4.3	4.3	6.7
ALGER	69kV	Upper Peninsula Power Company	X					3.3	3.3	5.4
ALGOMA	69kV	Wisconsin Public Service	X					3.3	3.3	5.4
ALGOMA CITY	69kV	WPPI/Algoma City	X					3.3	3.3	5.4
ALLERTON	138kV	We Energies	X					4.3	4.3	6.7
ALTO	69kV	Alliant Energy	X					3.3	3.3	5.4
AMBERG	69kV	We Energies	X					3.3	3.3	5.4
AMBERG	138kV	We Energies	X					4.3	4.3	6.7
Amberg	T6, tertiary, 13.09kV	We Energies	X					1.3	1.3	1.6
American	138kV	Alliant Energy	X					4.3	4.3	6.7
ANTIGO	115kV	Wisconsin Public Service	X					3.3	3.3	5.4
APPLE_HILLS	138kV	We Energies	X					4.3	4.3	6.7
ARAGON	69kV	We Energies	X					3.3	3.3	5.4
Arcadian	TRANSF 1, buried tertiary, 13.8kV	We Energies			X			1.3	N/A	N/A
Arcadian	TRANSF 2, tertiary, 27.6kV	We Energies			X			1.3	2.4	4.4
ARCADIAN	345kV	We Energies	X					11.3	11.3	17.8
ARCADIAN	138kV	We Energies		X				4.3	5.5	8.9
Arcadian	TRANSF 3, tertiary, 27.6kV	We Energies			X			1.3	2.4	4.4
AREA 7	161kV	Dairyland Power Cooperative	X					4.8	4.8	7.4
ARENA	69kV	Alliant Energy	X					3.3	3.3	5.4
ARGYLE	69kV	Alliant Energy	X					3.3	3.3	5.4
ARMENIA	69kV	Alliant Energy	X					3.3	3.3	5.4
ARMORY	69kV	We Energies	X					3.3	3.3	5.4
ARNOLD	138kV	We Energies	X					4.3	4.3	6.7
ARNOTT	69kV	Alliant Energy	X					3.3	3.3	5.4
ARNOTT	138kV	We Energies	X					4.3	4.3	6.7
ARPIN	345kV	Alliant Energy	X					11.3	11.3	17.8
ARPIN	138kV	Alliant Energy	X					4.3	4.3	6.7
ARPIN	115kV	Alliant Energy	X					3.8	3.8	5.9
Arpin	T21, tertiary, 13.8kV	Alliant Energy	X					1.3	1.3	1.6
Arpin	T31, tertiary, 12.47kV	Alliant Energy		X				1.3	1.7	5.9
ARROWHEAD	69kV	Adams Columbia Electric Cooperat	X					3.3	3.3	5.4
Arrowhead 345/230 kV	9TR (A phase), tertiary, 12kV	Minnesota Power			X			1.3	3.0	5.4



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			1 (4Cal/cm ²)	2 (8Cal/cm ²)	3 (25Cal/cm ²)	4 (40Cal/cm ²)	X >(40Cal/cm ²)			
ARROWHEAD MP	230kV	Minnesota Power	X					6.7	6.7	10.2
ARROWHEAD MP	345kV	Minnesota Power	X					11.3	11.3	17.8
ARTESIAN	138kV	Alliant Energy	X					4.3	4.3	6.7
ARTESIAN	69kV	Alliant Energy	X					3.3	3.3	5.4
Artesian	T1-2502, tertiary, 13.8kV	Alliant Energy		X				1.3	1.3	2.3
Artesian	T2-2503, tertiary, 13.8kV	Alliant Energy		X				1.3	1.3	2.3
ARTHUR ROAD	138kV	WPPI/Hartford Slinger	X					4.3	4.3	6.7
ASHLAND AVE	69kV	Wisconsin Public Service	X					3.3	3.3	5.4
ATLANTIC	69kV	Upper Peninsula Power Company	X					3.3	3.3	5.4
ATLANTIC	138kV	Upper Peninsula Power Company	X					4.3	4.3	6.7
Atlantic	T1, tertiary, 13.8kV	Upper Peninsula Power Company		X				1.3	1.4	2.5
AUBURN	138kV	We Energies	X					4.3	4.3	6.7
AUBURNDALE	69kV	Alliant Energy	X					3.3	3.3	5.4
Aurora St	3, tertiary, 13.8kV	Wisconsin Public Service	X					1.3	1.3	1.5
AURORA STREET	115kV	Wisconsin Public Service	X					3.8	3.8	5.9
AURORA STREET	69kV	Wisconsin Public Service	X					3.3	3.3	5.4
AVIATION	138kV	Wisconsin Public Service	X					4.3	4.3	6.7
AVOCA	69kV	Alliant Energy	X					3.3	3.3	5.4
BABCOCK	69kV	Alliant Energy	X					3.3	3.3	5.4
BADGER	138kV	We Energies	X					4.3	4.3	6.7
BADGER	115kV	We Energies	X					3.8	3.8	5.9
Badger	TRANSF 1, tertiary, 13.8kV	We Energies	X					1.3	1.3	1.5
BADGER ARMY AMMUNIT	69kV	Alliant Energy	X					3.3	3.3	5.4
BADGER PUMPING STAT	69kV	Alliant Energy	X					3.3	3.3	5.4
BADGER WEST	138kV	Adams Columbia Electric Cooperat	X					4.3	4.3	6.7
Bain	TRANSF 4, tertiary, 27.6kV	We Energies	X					1.3	1.3	2.2
Bain	TRANSF 5, tertiary, 27.6kV	We Energies	X					1.3	1.3	2.2
BAIN	138kV	We Energies	X					4.3	4.3	6.7
BAIN	345kV	We Energies	X					11.3	11.3	17.8
BAKER	115kV	GLU/Wisconsin Rapids	X					3.8	3.8	5.9
BARABOO	69kV	Alliant Energy	X					3.3	3.3	5.4
BARAGA	69kV	Upper Peninsula Power Company	X					3.3	3.3	5.4
BARK RIVR	138kV	We Energies	X					4.3	4.3	6.7
BARNETT	69kV	Wisconsin Public Service	X					3.3	3.3	5.4
BARNUM	69kV	Upper Peninsula Power Company	X					3.3	3.3	5.4
BARTON	138kV	We Energies	X					4.3	4.3	6.7
BASS CREEK	69kV	Alliant Energy	X					3.3	3.3	5.4
BASS LAKE	69kV	We Energies	X					3.3	3.3	5.4
BAY DE NOC	138kV	Wisconsin Public Service	X					4.3	4.3	6.7
BAYPORT	69kV	Wisconsin Public Service	X					3.3	3.3	5.4
BAYPORT	138kV	Wisconsin Public Service	X					4.3	4.3	6.7
BAYSHORE	69kV	Wisconsin Public Service	X					3.3	3.3	5.4
BAYVIEW	69kV	Upper Peninsula Power Company	X					3.3	3.3	5.4
BEARDSLEY	69kV	Wisconsin Public Service	X					3.3	3.3	5.4
Beaver Dam East	138kV	Alliant Energy	X					4.3	4.3	6.7
BELL CENTER	161kV	Dairyland Power Cooperative	X					4.8	4.8	7.4
BELLE PLAINE	115kV	Alliant Energy	X					3.8	3.8	5.9



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			1 (4Cal/cm ²)	2 (8Cal/cm ²)	3 (25Cal/cm ²)	4 (40Cal/cm ²)	X >(40Cal/cm ²)			
BELLEVILLE	69kV	Alliant Energy	X					3.3	3.3	5.4
BERLIN	69kV	Alliant Energy	X					3.3	3.3	5.4
BIG POND	69kV	Alliant Energy	X					3.3	3.3	5.4
BIG_Q_G1	69kV	We Energies	X					3.3	3.3	5.4
BIRCHWOOD	138kV	Alliant Energy	X					4.3	4.3	6.7
BIRD TAP	69kV	Alliant Energy	X					3.3	3.3	5.4
BIRNAMWOOD	69kV	Alliant Energy	X					3.3	3.3	5.4
BLACK EARTH	69kV	Alliant Energy	X					3.3	3.3	5.4
BLACKBROOK	115kV	Wisconsin Public Service	X					3.8	3.8	5.9
BLACKHAWK	69kV	Alliant Energy	X					3.3	3.3	5.4
BLACKHAWK	138kV	Alliant Energy	X					4.3	4.3	6.7
Blackhawk (Alliant Energy)	BLK-T33, tertiary, 12.47kV	Alliant Energy	X					1.3	1.3	2.0
BLACKHAWK MGE	69kV	Madison Gas and Electric	X					3.3	3.3	5.4
BLACKSMITH	69kV	Alliant Energy	X					3.3	3.3	5.4
BLANCHARDVILLE	69kV	Alliant Energy	X					3.3	3.3	5.4
BLNYPK 69KV	69kV	Edison Sault Electric Company	X					3.3	3.3	5.4
BLOOMINGTON	69kV	Alliant Energy	X					3.3	3.3	5.4
Blount	Bank #4, tertiary, 13.8kV	Madison Gas and Electric		X				1.3	1.6	3.0
BLOUNT TRANSMISSION	138kV	Madison Gas and Electric	X					4.3	4.3	6.7
BLOUNT TRANSMISSION	69kV	Madison Gas and Electric	X					3.3	3.3	5.4
BLUE RIVER	69kV	Alliant Energy	X					3.3	3.3	5.4
BLUEMOUND	230kV	We Energies	X					6.7	6.7	10.2
BLUEMOUND	138kV	We Energies	X					4.3	4.3	6.7
Bluemound	TRANSF 1, tertiary, 13.8kV	We Energies			X			1.3	2.2	4.1
Bluemound	TRANSF 3 tertiary, 13.8kV	We Energies			X			1.3	2.2	4.1
BLUESTONE	69kV	Wisconsin Public Service	X					3.3	3.3	5.4
BLUFF VIEW	69kV	Alliant Energy	X					3.3	3.3	5.4
BOOSTER	69kV	Wisconsin Public Service	X					3.3	3.3	5.4
BOSCOBEL	69kV	Alliant Energy	X					3.3	3.3	5.4
BOSCOBEL MUNICIPAL	69kV	WPPI/Boscobel Municipal	X					3.3	3.3	5.4
BOWEN ST	69kV	Wisconsin Public Service	X					3.3	3.3	5.4
BOXELDER	138kV	We Energies	X					4.3	4.3	6.7
BRADFORD	138kV	Rock Electric Cooperative	X					4.3	4.3	6.7
BRANCH	138kV	We Energies	X					4.3	4.3	6.7
BRANDON	69kV	Alliant Energy	X					3.3	3.3	5.4
BREVORT_138	138kV	Cloverland	X					4.3	4.3	6.7
BREWER	69kV	Alliant Energy	X					3.3	3.3	5.4
BRICK CHURCH	69kV	Alliant Energy	X					3.3	3.3	5.4
BRICK CHURCH	138kV	Alliant Energy	X					4.3	4.3	6.7
Brick Church	ALL-NLG 00, tertiary, 13.8kV	Alliant Energy			X			1.3	1.9	3.4
BRIL.I.W	69kV	Wisconsin Public Service	X					3.3	3.3	5.4
BRIMLEY_69	69kV	Cloverland	X					3.3	3.3	5.4
BRISBOIS	69kV	Alliant Energy	X					3.3	3.3	5.4
BRISTOL	138kV	Alliant Energy	X					4.3	4.3	6.7
BRODHEAD	69kV	Alliant Energy	X					3.3	3.3	5.4
Brodhead Muni Centr	69kV	WPPI/Brodhead	X					3.3	3.3	5.4
Brodhead Muni North	69kV	WPPI/Brodhead	X					3.3	3.3	5.4



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			1 (4Cal/cm ²)	2 (8Cal/cm ²)	3 (25Cal/cm ²)	4 (40Cal/cm ²)	X >(40Cal/cm ²)			
Brodhead Muni South	69kV	WPPI/Brodhead	X					3.3	3.3	5.4
BRODHEAD SWITCHING	69kV	Alliant Energy	X					3.3	3.3	5.4
BROOKDALE	138kV	We Energies	X					4.3	4.3	6.7
BROOKLYN	69kV	Alliant Energy	X					3.3	3.3	5.4
BROOKS	69kV	Adams Columbia Electric Coopera	X					3.3	3.3	5.4
BROOKS CORNER	69kV	Alliant Energy	X					3.3	3.3	5.4
BROWNTOWN	69kV	Alliant Energy	X					3.3	3.3	5.4
BRUCE CRSING	69kV	We Energies	X					3.3	3.3	5.4
BRULE	69kV	We Energies	X					3.3	3.3	5.4
BRUSBAY	69kV	Wisconsin Public Service	X					3.3	3.3	5.4
BUNKER HILL	115kV	Wisconsin Public Service	X					3.8	3.8	5.9
BURKE	69kV	Alliant Energy	X					3.3	3.3	5.4
BURLINGTON	138kV	We Energies	X					4.3	4.3	6.7
BUSINESS PARK	69kV	WPPI/Sun Prairie	X					3.3	3.3	5.4
BUTLER	138kV	We Energies	X					4.3	4.3	6.7
BUTLER RIDGE	138kV	We Energies	X					4.3	4.3	6.7
BUTTE DES MORTS	138kV	Alliant Energy	X					4.3	4.3	6.7
BUTTERNUT	138kV	We Energies	X					4.3	4.3	6.7
CALAMUS	69kV	Adams Columbia Electric Coopera	X					3.3	3.3	5.4
CALDRN FALLS	69kV	Wisconsin Public Service	X					3.3	3.3	5.4
CALEDONIA	69kV	Alliant Energy	X					3.3	3.3	5.4
CAMBRIA	69kV	Alliant Energy	X					3.3	3.3	5.4
CAMBRIA ACEC	69kV	Adams Columbia Electric Coopera	X					3.3	3.3	5.4
CAMBRIDGE	138kV	Alliant Energy	X					4.3	4.3	6.7
CAMBRIDGE TAP	138kV	Alliant Energy	X					4.3	4.3	6.7
CAMP DOUGLAS	69kV	Alliant Energy	X					3.3	3.3	5.4
CANAL	69kV	Wisconsin Public Service	X					3.3	3.3	5.4
CANAL	138kV	Wisconsin Public Service	X					4.3	4.3	6.7
Canal	BANK 2, tertiary, 13.8kV	Wisconsin Public Service		X				1.3	1.3	2.3
Canal	BANK 1, tertiary, 13.8kV	Wisconsin Public Service		X				1.3	1.7	3.1
CAROLINE	69kV	Alliant Energy	X					3.3	3.3	5.4
CAROLINE	115kV	Alliant Energy	X					3.8	3.8	5.9
Caroline	T61, tertiary, 12.47kV	Alliant Energy	X					1.3	1.3	2.2
CASALOMA	138kV	We Energies	X					4.3	4.3	6.7
CASSEL	115kV	Wisconsin Public Service	X					3.8	3.8	5.9
CASTLE ROCK	69kV	Alliant Energy	X					3.3	3.3	5.4
CEDAR RIDGE	138kV	Alliant Energy	X					4.3	4.3	6.7
CEDARBURG SOUTH	138kV	WPPI/Cedarburg	X					4.3	4.3	6.7
CEDARSAUK	345kV	We Energies	X					11.3	11.3	17.8
Cedarsauk	TRANSF 1, tertiary, 13.8kV	We Energies				X		1.3	3.2	5.8
CENTER	69kV	Rock Electric Cooperative	X					3.3	3.3	5.4
CENTER ST	69kV	Alliant Energy	X					3.3	3.3	5.4
CENTER STREET	138kV	Alliant Energy	X					4.3	4.3	6.7
CHAFFEE CREEK	69kV	Alliant Energy	X					3.3	3.3	5.4
Chalk Hill Hydro	T8, tertiary, 4.8kV	We Energies	X					1.3	1.3	4.1
CHALK_HILL_S	69kV	We Energies	X					3.3	3.3	5.4
CHALK_HILL_S	138kV	We Energies	X					4.3	4.3	6.7



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			1 (4Cal/cm ²)	2 (8Cal/cm ²)	3 (25Cal/cm ²)	4 (40Cal/cm ²)	X >(40Cal/cm ²)			
CHAMPION 1	138kV	We Energies	X					4.3	4.3	6.7
CHANDLER	69kV	Upper Peninsula Power Company	X					3.3	3.3	5.4
CHANDLER	138kV	Alliant Energy	X					4.3	4.3	6.7
Chandler	84688, tertiary, 13.8kV	Upper Peninsula Power Company		X				1.3	1.3	2.4
CHARTER	138kV	We Energies	X					4.3	4.3	6.7
CHATEAU	69kV	Adams Columbia Electric Cooper	X					3.3	3.3	5.4
CHATHAM	69kV	Upper Peninsula Power Company	X					3.3	3.3	5.4
CHRISTIANA	138kV	Alliant Energy	X					4.3	4.3	6.7
CITY LIMITS	138kV	We Energies	X					4.3	4.3	6.7
CLEAR LAKE	115kV	Wisconsin Public Service	X					3.8	3.8	5.9
CLINTON	69kV	Rock Electric Cooperative	X					3.3	3.3	5.4
CLINTON	69kV	Alliant Energy	X					3.3	3.3	5.4
CLINTONVILLE	138kV	GLU/Badger Power Marketing Au	X					4.3	4.3	6.7
CLOVERLEAF	138kV	We Energies	X					4.3	4.3	6.7
COLLADAY POINT	138kV	Alliant Energy	X					4.3	4.3	6.7
COLLEY ROAD	69kV	Alliant Energy	X					3.3	3.3	5.4
COLLEY ROAD	138kV	Alliant Energy	X					4.3	4.3	6.7
Colley Road	T31, tertiary, 12.47kV	Alliant Energy		X				1.3	1.5	2.8
COLOMA	69kV	Adams Columbia Electric Cooper	X					3.3	3.3	5.4
COLOMA INDUSTRIAL	69kV	Alliant Energy	X					3.3	3.3	5.4
COLORADO	69kV	WPPI/Sun Prairie	X					3.3	3.3	5.4
COLUMBIA	69kV	Alliant Energy	X					3.3	3.3	5.4
COLUMBIA	345kV	Alliant Energy	X					11.3	11.3	17.8
COLUMBIA	138kV	Alliant Energy	X					4.3	4.3	6.7
Columbia	T22, tertiary, 13.8kV	Alliant Energy			X			1.3	1.8	3.3
Columbia	T23, tertiary, 13.8kV	Alliant Energy		X				1.3	1.3	2.3
Columbia	T31, tertiary, 12.47kV	Alliant Energy		X				1.3	1.3	2.3
Columbia	T21, tertiary, 13.8kV	Alliant Energy			X			1.3	1.8	3.3
COLUMBUS	69kV	Alliant	X					3.3	3.3	5.4
COLUMBUS SOUTH	69kV	WPPI/Columbus	X					3.3	3.3	5.4
COLUMBUS ST	69kV	WPPI/Two Rivers	X					3.3	3.3	5.4
COMMERCIAL AVE RISER	138kV	Madison Gas and Electric	X					4.3	4.3	6.7
CONCORD	138kV	We Energies	X					4.3	4.3	6.7
CONOVER	69kV	We Energies	X					3.3	3.3	5.4
COONEY	138kV	WPPI/Oconomowoc	X					4.3	4.3	6.7
CORNELL	69kV	We Energies	X					3.3	3.3	5.4
CORNELL_138	138kV	We Energies	X					4.3	4.3	6.7
COTTAGE GROVE	69kV	Alliant Energy	X					3.3	3.3	5.4
COTTWOOD	138kV	We Energies	X					4.3	4.3	6.7
COTTONVILLE	69kV	Adams Columbia Electric Cooper	X					3.3	3.3	5.4
COULEE	161kV	Dairyland Power Cooperative	X					4.8	4.8	7.4
COUNCIL CREEK	69kV	Alliant Energy	X					3.3	3.3	5.4
COUNCIL CREEK	138kV	Alliant Energy	X					4.3	4.3	6.7
Council Creek	T31, tertiary, 12.47kV	Alliant Energy		X				1.3	1.6	3.0
COYNE	115kV	Wisconsin Public Service	X					3.8	3.8	5.9
COYNE ST	115kV	Wisconsin Public Service	X					3.3	3.3	5.4
CRANBERRY	115kV	Wisconsin Public Service	X					3.8	3.8	5.9



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			1 (4Cal/cm ²)	2 (8Cal/cm ²)	3 (25Cal/cm ²)	4 (40Cal/cm ²)	X >(40Cal/cm ²)			
CRANSTON	69kV	Alliant Energy	X					3.3	3.3	5.4
CRAWFISH RIVER	138kV	We Energies	X					4.3	4.3	6.7
CRIVITZ	138kV	Wisconsin Public Service	X					4.3	4.3	6.7
CRIVITZ	69kV	Wisconsin Public Service	X					3.3	3.3	5.4
Crivitz	1, tertiary, 13.8kV	Wisconsin Public Service	X					1.3	1.3	1.5
Crivitz	3, tertiary, 12.47kV	Wisconsin Public Service		X				1.3	1.4	2.6
CROSS COUNTRY	69kV	Alliant Energy	X					3.3	3.3	5.4
CROSS COUNTRY	138kV	Alliant Energy	X					4.3	4.3	6.7
Cross Country	T83, tertiary, 12.47kV	Alliant Energy		X				1.3	1.7	3.1
CRYSTAL_FALS	69kV	We Energies	X					3.3	3.3	5.4
CUBA CITY	69kV	WPPI/Cuba City	X					3.3	3.3	5.4
CURTIS_69	69kV	Edison Sault Electric Company	X					3.3	3.3	5.4
CUSTER	69kV	GLU/Manitowoc Public Utilities	X					3.3	3.3	5.4
CVRLND_DAFTR	69kV	Cloverland	X					3.3	3.3	5.4
CYPRESS_G335	345kV	We Energies	X					11.3	11.3	17.8
DAM HEIGHTS	69kV	Alliant Energy	X					3.3	3.3	5.4
DANA CORPORATION	69kV	Alliant Energy	X					3.3	3.3	5.4
DANE	69kV	Alliant Energy	X					3.3	3.3	5.4
DANZ AVE	69kV	Wisconsin Public Service	X					3.3	3.3	5.4
DARLINGTON	69kV	Alliant Energy	X					3.3	3.3	5.4
DARLINGTON	138kV	Alliant Energy	X					4.3	4.3	6.7
Darlington	DAR-T31, tertiary, 13.8kV	Alliant Energy		X				1.3	1.8	3.2
DARTFORD 69KV	69kV	Alliant Energy	X					3.3	3.3	5.4
DAVES FALLS	69kV	Wisconsin Public Service	X					3.3	3.3	5.4
DE PERE	138kV	Wisconsin Public Service	X					4.3	4.3	6.7
Dead River	T1A, tertiary, 24.9kV	We Energies			X			1.3	5.5	19.0
Dead River	T1, tertiary, 24.9kV	We Energies			X			1.3	5.5	19.0
DEAD_RIVER_T	138kV	We Energies	X					4.3	4.3	6.7
DEAD_RIVER_T	345kV	We Energies	X					11.3	11.3	17.8
DEER TRAIL	69kV	Alliant Energy	X					3.3	3.3	5.4
DEFOREST	69kV	Alliant Energy	X					3.3	3.3	5.4
DELAVAN	138kV	Alliant Energy	X					4.3	4.3	6.7
DELL CREEK	138kV	Alliant Energy	X					4.3	4.3	6.7
DELLWOOD	69kV	Adams Columbia Electric Cooperat	X					3.3	3.3	5.4
DELTA	69kV	Upper Peninsula Power Company	X					3.3	3.3	5.4
DETOUR	69kV	Cloverland	X					3.3	3.3	5.4
DEWEY	138kV	We Energies	X					4.3	4.3	6.7
DEWEY_69	69kV	GLU/Manitowoc Public Utilities	X					3.3	3.3	5.4
DEWEY_TP	115kV	Wisconsin Public Service	X					3.8	3.8	5.9
DICKINSON	138kV	Alliant Energy	X					4.3	4.3	6.7
DIDION	69kV	Alliant Energy	X					3.3	3.3	5.4
DODGEVILLE	69kV	Alliant Energy	X					3.3	3.3	5.4
DOYLESTOWN	69kV	Adams Columbia Electric Cooperat	X					3.3	3.3	5.4
DUNN RD	69kV	Wisconsin Public Service	X					3.3	3.3	5.4
DUPLAINVILLE	138kV	We Energies	X					4.3	4.3	6.7
Dyckesville	3, tertiary, 13.8kV	Wisconsin Public Service	X					1.3	1.3	2.2
DYKESVL	138kV	Wisconsin Public Service	X					4.3	4.3	6.7



Arc Flash Categories ATC Facilities
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Substation	Voltage-Equipment	LDC Territory	Hazard/Risk Category (H/RC) Required minimum FR clothing rating					Minimum Approach Distance (ft)	Minimum Approach Distance at 4 cal/cm ² (ft)	Arc Flash Boundary At 1.2cal/cm ² (ft)
			1 (4Cal/cm ²)	2 (8Cal/cm ²)	3 (25Cal/cm ²)	4 (40Cal/cm ²)	X >(40Cal/cm ²)			
DYKESVL	69kV	Wisconsin Public Service	X					3.3	3.3	5.4
EAGLE-DPC	69kV	Dairyland Power Cooperative	X					3.3	3.3	5.4
EAST BELOIT	69kV	Alliant Energy	X					3.3	3.3	5.4
EAST CAMPUS	69kV	Madison Gas and Electric	X					3.3	3.3	5.4
EAST KROK	69kV	Wisconsin Public Service	X					3.3	3.3	5.4
EAST KROK	138kV	Wisconsin Public Service	X					4.3	4.3	6.7
East Krok	1, tertiary, 13.8kV	Wisconsin Public Service	X					1.3	1.3	2.2
EAST ROCKTON	69kV	Alliant Energy	X					3.3	3.3	5.4
EAST SCOTT STREET	138kV	Alliant Energy	X					4.3	4.3	6.7
EAST SHAWANO	138kV	GLU/Badger Power Marketing Au	X					4.3	4.3	6.7
EASTMAN	138kV	Wisconsin Public Service	X					4.3	4.3	6.7
EASTOM	115kV	Wisconsin Public Service	X					3.8	3.8	5.9
ECKERMAN 69	69kV	Cloverland	X					3.3	3.3	5.4
EDEN	69kV	Alliant Energy	X					3.3	3.3	5.4
EDEN	138kV	Alliant Energy	X					4.3	4.3	6.7
Eden	EEN-T31, tertiary, 4.16kV	Alliant Energy			X			1.3	1.8	3.2
EDGERTON	69kV	Rock Electric Cooperative	X					3.3	3.3	5.4
EDGEWATER	69kV	Alliant Energy	X					3.3	3.3	5.4
EDGEWATER	345kV	Alliant Energy	X					11.3	11.3	17.8
EDGEWATER	138kV	Alliant Energy	X					4.3	4.3	6.7
Edgewater	T31, tertiary, 13.09kV	Alliant Energy		X				1.3	1.5	2.6
Edgewater	T32, tertiary, 13.09kV	Alliant Energy		X				1.3	1.4	2.6
Edgewater	T21, tertiary, 13.8kV	Alliant Energy		X				1.3	1.7	3.1
Edgewater	T22, tertiary, 13.8kV	Alliant Energy		X				1.3	1.7	3.2
EDGEWOOD	138kV	Alliant Energy	X					4.3	4.3	6.7
EGG HARB	69kV	Wisconsin Public Service	X					3.3	3.3	5.4
ELESCO HYD	69kV	Edison Sault Electric Company	X					3.3	3.3	5.4
ELEVATION	69kV	Upper Peninsula Power Company	X					3.3	3.3	5.4
ELKHART LAKE	138kV	We Energies	X					4.3	4.3	6.7
ELKHORN	138kV	Alliant Energy/Elkhorn Municipal	X					4.3	4.3	6.7
ELLINGTON	138kV	We Energies	X					4.3	4.3	6.7
ELLINWOOD	69kV	Wisconsin Public Service	X					3.3	3.3	5.4
ELLINWOOD	138kV	Wisconsin Public Service	X					4.3	4.3	6.7
Ellinwood	1, tertiary, 13.8kV	Wisconsin Public Service		X				1.3	1.5	2.7
Elm Road	TRANSF 895A phase, tertiary, 13.8k	We Energies			X			1.3	2.0	3.7
ELM ROAD	345kV	We Energies	X					11.3	11.3	17.8
ELM ROAD	230kV	We Energies	X					6.7	6.7	10.2
ELM ROAD	138kV	We Energies			X			4.3	7.0	11.6
ELMO	69kV	Alliant Energy	X					3.3	3.3	5.4
ELROY	69kV	Alliant Energy	X					3.3	3.3	5.4
EMPIRE	138kV	We Energies	X					4.3	4.3	6.7
ENDEVOR	69kV	Alliant Energy	X					3.3	3.3	5.4
ENGADINE	69kV	Cloverland	X					3.3	3.3	5.4
Erdman	T31, tertiary, 12.47kV	Alliant Energy	X					1.3	1.3	2.0
ERDMANN	69kV	Alliant Energy	X					3.3	3.3	5.4
ERDMANN	138kV	Alliant Energy	X					4.3	4.3	6.7
ESCANABA	69kV	City of Escanaba	X					3.3	3.3	5.4



Arc Flash Categories ATC Facilities
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Substation	Voltage-Equipment	LDC Territory	Hazard/Risk Category (H/RC) Required minimum FR clothing rating					Minimum Approach Distance (ft)	Minimum Approach Distance at 4 cal/cm2 (ft)	Arc Flash Boundary At 1.2cal/cm ² (ft)
			1 (4Cal/cm ²)	2 (8Cal/cm ²)	3 (25Cal/cm ²)	4 (40Cal/cm ²)	X >(40Cal/cm ²)			
ETN 69-1	69kV	Alliant Energy	X					3.3	3.3	5.4
ETN 69-2	69kV	Alliant Energy	X					3.3	3.3	5.4
EVANSVILLE	69kV	WPPI/Evansville	X					3.3	3.3	5.4
EVERETT	138kV	We Energies		X				4.3	5.5	8.9
EVERGREEN	69kV	Edison Sault Electric Company	X					3.3	3.3	5.4
FALL RIVER	69kV	Alliant Energy	X					3.3	3.3	5.4
FALLS	138kV	We Energies	X					4.3	4.3	6.7
FELCH	69kV	We Energies	X					3.3	3.3	5.4
FELCH MOUNTAIN	69kV	We Energies	X					3.3	3.3	5.4
Femrite (138/69 kV)	1, tertiary, 13.8kV	Madison Gas and Electric		X				1.3	1.6	3.0
FEMRITE_138	138kV	Madison Gas and Electric	X					4.3	4.3	6.7
FEMRITE_69	69kV	Madison Gas and Electric	X					3.3	3.3	5.4
FENNIMORE	69kV	Alliant Energy	X					3.3	3.3	5.4
FIEBRANTZ	138kV	We Energies	X					4.3	4.3	6.7
FINGER R	69kV	Wisconsin Public Service	X					3.3	3.3	5.4
FINNEGAN	69kV	Alliant/Wisconsin Dells	X					3.3	3.3	5.4
FIRSTAVE	69kV	WPPI/Sturgeon Bay	X					3.3	3.3	5.4
Fitchburg	Bank 3, tertiary, 24.9kV	Madison Gas and Electric		X				1.3	1.4	2.5
Fitchburg	Bank 4, tertiary, 24.9kV	Madison Gas and Electric		X				1.3	1.4	2.5
FITCHBURG	138kV	Madison Gas and Electric	X					4.3	4.3	6.7
FITCHBURG	69kV	Madison Gas and Electric	X					3.3	3.3	5.4
FITZGERALD P	345kV	Wisconsin Public Service	X					11.3	11.3	17.8
FITZGERALD P	138kV	Wisconsin Public Service	X					4.3	4.3	6.7
FLARE AVE	69kV	Alliant Energy	X					3.3	3.3	5.4
FLORENCE	69kV	We Energies	X					3.3	3.3	5.4
FOOTVILLE	69kV	Alliant Energy	X					3.3	3.3	5.4
Forest Junction	TRANSF 2, tertiary, 24.9kV	We Energies			X			1.3	8.1	27.9
Forest Junction	TRANSF 1, tertiary, 24.9kV	We Energies			X			1.3	8.1	27.8
FOREST LAKE	69kV	Upper Peninsula Power Company	X					3.3	3.3	5.4
FOREST_JUNCTION	345kV	We Energies	X					11.3	11.3	17.8
FOREST_JUNCTION	138kV	We Energies	X					4.3	4.3	6.7
FORSYTH	69kV	Upper Peninsula Power Company	X					3.3	3.3	5.4
FORSYTH	138kV	Upper Peninsula Power Company	X					4.3	4.3	6.7
Forsyth	4731, tertiary, 13.8kV	Upper Peninsula Power Company	X					1.3	1.3	1.8
FORT_ATKINSON	138kV	We Energies	X					4.3	4.3	6.7
FORWARD	69kV	Alliant Energy	X					3.3	3.3	5.4
FORWARD ENERGY CENT	138kV	We Energies	X					4.3	4.3	6.7
FOUNTAIN VALLEY SUB	69kV	Alliant Energy	X					3.3	3.3	5.4
FOURTH AVE/FIBER TA	69kV	Wisconsin Public Service	X					3.3	3.3	5.4
FOX HILL	69kV	Wisconsin Public Service	X					3.3	3.3	5.4
FOX HILL	138kV	Adams Columbia Electric Cooperat	X					4.3	4.3	6.7
FOX LAKE	138kV	Alliant Energy	X					4.3	4.3	6.7
FOX_RIVER_SWITCH_YA	345kV	Wisconsin Public Service	X					11.3	11.3	17.8
FREDONIA	138kV	We Energies	X					4.3	4.3	6.7
FREEMAN	138kV	Alliant Energy	X					4.3	4.3	6.7
FRIENDSHIP	69kV	Adams Columbia Electric Cooperat	X					3.3	3.3	5.4
FRIESLAND	138kV	Adams Columbia Electric Cooperat	X					4.3	4.3	6.7



Arc Flash Categories ATC Facilities
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Substation	Voltage-Equipment	LDC Territory	Hazard/Risk Category (H/RC) Required minimum FR clothing rating					Minimum Approach Distance (ft)	Minimum Approach Distance at 4 cal/cm ² (ft)	Arc Flash Boundary At 1.2cal/cm ² (ft)
			1 (4Cal/cm ²)	2 (8Cal/cm ²)	3 (25Cal/cm ²)	4 (40Cal/cm ²)	X >(40Cal/cm ²)			
FULTON	69kV	Rock Electric Cooperative	X					3.3	3.3	5.4
GALENA	161kV	Dairyland Power Cooperative	X					4.8	4.8	7.4
Gardner Park	T1, tertiary, 24.9kV	Wisconsin Public Service		X				1.3	1.6	2.9
Gardner Park	T2, tertiary, 24.9kV	Wisconsin Public Service		X				1.3	1.3	2.3
GARDNER PARK	115kV	Wisconsin Public Service		X				3.8	4.8	7.8
GARDNER PARK	345kV	Wisconsin Public Service	X					11.3	11.3	17.8
GAYS MILLS	69kV	Alliant Energy	X					3.3	3.3	5.4
GENOA	161kV	Dairyland Power Cooperative	X					4.8	4.8	7.4
GERMANTOWN	138kV	We Energies	X					4.3	4.3	6.7
GLACIER	138kV	We Energies	X					4.3	4.3	6.7
GLADSTONE	69kV	Upper Peninsula Power Company	X					3.3	3.3	5.4
GLDCTY_69KV	69kV	We Energies	X					3.3	3.3	5.4
GLEN	69kV	Adams Columbia Electric Cooper	X					3.3	3.3	5.4
GLEN HAVEN	69kV	Alliant Energy	X					3.3	3.3	5.4
GLENDALE	138kV	We Energies	X					4.3	4.3	6.7
GLENJENKS 69	69kV	Edison Sault Electric Company	X					3.3	3.3	5.4
GLENVIEW	69kV	Wisconsin Public Service	X					3.3	3.3	5.4
GLENVIEW	138kV	Wisconsin Public Service	X					4.3	4.3	6.7
Glenview	1, tertiary, 13.8kV	Wisconsin Public Service			X			1.3	1.9	3.4
Glenview	2, tertiary, 13.8kV	Wisconsin Public Service		X				1.3	1.7	3.0
GLORY ROAD	138kV	Wisconsin Public Service	X					4.3	4.3	6.7
GOETZVILLE	69kV	Cloverland	X					3.3	3.3	5.4
GOLDEN SANDS	138kV	Wisconsin Public Service	X					4.3	4.3	6.7
GOODMAN	69kV	Wisconsin Public Service	X					3.3	3.3	5.4
GRAN GRAE	161kV	Dairyland Power Cooperative	X					4.8	4.8	7.4
GRAN GRAE	69kV	Alliant Energy	X					3.3	3.3	5.4
Gran Grae	, tertiary, 13.8kV	Alliant Energy		X				1.3	1.9	6.4
GRAND MARSH	69kV	Pioneer Power and Light	X					3.3	3.3	5.4
GRAND RAPIDS (Coyne)	115kV	Wisconsin Public Service,Consoli	X					3.8	3.8	5.9
GRANDFATHER FALLS	115kV	Wisconsin Public Service	X					3.8	3.8	5.9
GRANT	69kV	Adams Columbia Electric Cooper	X					3.3	3.3	5.4
GRANVILLE	345kV	We Energies	X					11.3	11.3	17.8
GRANVILLE	138kV	We Energies		X				4.3	5.5	8.9
Granville	TRANSF 1, tertiary, 27.6kV	We Energies			X			1.3	1.8	3.2
Granville	TRANSF 3, tertiary, 14kV	We Energies			X			1.3	2.4	4.4
GRATIOT	69kV	Alliant Energy	X					3.3	3.3	5.4
GRAVESVILLE	69kV	Wisconsin Public Service	X					3.3	3.3	5.4
GREDE_FNDRY	69kV	WPPI/Reedsburg	X					3.3	3.3	5.4
GREEN LAKE SWITCHIN	138kV	Alliant Energy	X					4.3	4.3	6.7
GREENLEAF	138kV	Wisconsin Public Service	X					4.3	4.3	6.7
GREENSTONE	69kV	Upper Peninsula Power Company	X					3.3	3.3	5.4
GREVES	138kV	We Energies	X					4.3	4.3	6.7
GROENIER	69kV	Alliant Energy	X					3.3	3.3	5.4
GWINN	69kV	Upper Peninsula Power Company	X					3.3	3.3	5.4
GWY 69	69kV	Madison Gas and Electric	X					3.3	3.3	5.4
HAMILTON	138kV	Alliant Energy	X					4.3	4.3	6.7
HAMPDEN	69kV	Alliant Energy	X					3.3	3.3	5.4



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Substation	Voltage-Equipment	LDC Territory	Hazard/Risk Category (H/RC) Required minimum FR clothing rating					Minimum Approach Distance (ft)	Minimum Approach Distance at 4 cal/cm2 (ft)	Arc Flash Boundary At 1.2cal/cm ² (ft)
			1 (4Cal/cm ²)	2 (8Cal/cm ²)	3 (25Cal/cm ²)	4 (40Cal/cm ²)	X >(40Cal/cm ²)			
HANCOCK	69kV	Adams Columbia Electric Coopera	X					3.3	3.3	5.4
HANCOCK	69kV	Alliant Energy	X					3.3	3.3	5.4
HARBOR	138kV	We Energies	X					4.3	4.3	6.7
HARMONY	69kV	Rock Electric Cooperative	X					3.3	3.3	5.4
HARRIS	69kV	We Energies	X					3.3	3.3	5.4
Harrison	1, tertiary, 13.8kV	Wisconsin Public Service	X					1.3	1.3	2.2
HARRISON 138kV YARD	138kV	Wisconsin Public Service	X					4.3	4.3	6.7
HARRISON 69kV YARD	69kV	Wisconsin Public Service	X					3.3	3.3	5.4
HARTFORD	138kV	We Energies	X					4.3	4.3	6.7
HARTMAN CREEK	138kV	Wisconsin Public Service	X					4.3	4.3	6.7
HAYES	138kV	We Energies	X					4.3	4.3	6.7
HAYMKT SQ	138kV	We Energies		X				4.3	5.5	8.9
HENRY	69kV	Wisconsin Public Service	X					3.3	3.3	5.4
HENRY ST	69kV	Wisconsin Public Service	X					3.3	3.3	5.4
Hiawatha	T1, tertiary, 13.8kV	Edison Sault Electric Company		X				1.3	1.3	2.4
Hiawatha	T2, tertiary, 13.8kV	Edison Sault Electric Company		X				1.3	1.6	2.8
HIAWATHA Distributi	69kV	WPPI/Aldger Delta REA	X					3.3	3.3	5.4
HIAWATHA-Main	69kV	Edison Sault Electric Company	X					3.3	3.3	5.4
HIAWATHA-Main Subst	138kV	Edison Sault Electric Company	X					4.3	4.3	6.7
HICKORY STREET	69kV	Alliant Energy	X					3.3	3.3	5.4
HIGH FLS	69kV	Wisconsin Public Service	X					3.3	3.3	5.4
HIGHWAY 22	345kV	We Energies	X					11.3	11.3	17.8
HILLMAN	69kV	Alliant Energy	X					3.3	3.3	5.4
HILLMAN	138kV	Alliant Energy	X					4.3	4.3	6.7
Hillman	T31, tertiary, 12.47kV	Alliant Energy	X					1.3	2.6	4.8
HILLSBORO	69kV	Alliant Energy	X					3.3	3.3	5.4
HILLSBORO-DPC	161kV	Dairyland Power Cooperative	X					4.8	4.8	7.4
HILLSIDE	69kV	Alliant Energy	X					3.3	3.3	5.4
HILLTOP (CG)	69kV	Alliant Energy	X					3.3	3.3	5.4
HILLTOP (DP)	115kV	Wisconsin Public Service	X					3.8	3.8	5.9
HINTZ	138kV	We Energies	X					4.3	4.3	6.7
HIWAY 8	115kV	Wisconsin Public Service	X					3.8	3.8	5.9
HIWAY V	69kV	Wisconsin Public Service	X					3.3	3.3	5.4
HIWAY V	138kV	Wisconsin Public Service	X					4.3	4.3	6.7
Hiway V	1, tertiary, 2.4kV	Wisconsin Public Service			X			1.3	1.3	2.1
Hiway V	2, tertiary, 2.4kV	Wisconsin Public Service			X			1.3	2.6	4.8
HODAG	115kV	Wisconsin Public Service	X					3.8	3.8	5.9
HOLLAND	138kV	Alliant Energy	X					4.3	4.3	6.7
HOLLAND	138kV	We Energies	X					4.3	4.3	6.7
HOLMES	138kV	Alliant Energy	X					4.3	4.3	6.7
HOOTERVILLE	69kV	Alliant Energy	X					3.3	3.3	5.4
HOOVER	138kV	Wisconsin Public Service	X					4.3	4.3	6.7
HOOVER	115kV	Wisconsin Public Service	X					3.8	3.8	5.9
Hoover	3, tertiary, 12.47kV	Wisconsin Public Service		X				1.3	1.6	2.9
HORICON	69kV	Alliant Energy	X					3.3	3.3	5.4
HOUGHTON ROCK	69kV	Alliant Energy	X					3.3	3.3	5.4
HOWARD	138kV	Wisconsin Public Service	X					4.3	4.3	6.7



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			1 (4Cal/cm ²)	2 (8Cal/cm ²)	3 (25Cal/cm ²)	4 (40Cal/cm ²)	X >(40Cal/cm ²)			
HOWARDS_GROVE	138kV	Alliant Energy	X					4.3	4.3	6.7
Hubbard	69kV	Alliant Energy	X					3.3	3.3	5.4
HUBBARD	138kV	Alliant Energy	X					4.3	4.3	6.7
HUEBNER	138kV	Alliant Energy	X					4.3	4.3	6.7
Huiskamp	24.9kV	Madison Gas and Electric	X					1.3	1.3	2.2
HUISKAMP	138kV	Madison Gas and Electric	X					4.3	4.3	6.7
HUISKAMP	69kV	Madison Gas and Electric	X					3.3	3.3	5.4
HULBERT	69kV	Cloverland	X					3.3	3.3	5.4
HUMBOLT	69kV	Upper Peninsula Power Company	X					3.3	3.3	5.4
HUME	115kV	GLU/Wisconsin Public Service/M	X					3.8	3.8	5.9
HUSTISFORD TAP	138kV	WPPI/Huistisford	X					4.3	4.3	6.7
IDLE HOUR	69kV	Alliant Energy	X					3.3	3.3	5.4
INDIAN LAKE	138kV	We Energies	X					4.3	4.3	6.7
INDIAN LAKE	69kV	Edison Sault Electric Company	X					3.3	3.3	5.4
Indian Lake	Indian Lake #1, tertiary, 13.8kV	Edison Sault Electric Company		X				1.3	1.5	2.7
Indian Lake	Indian Lake #2, tertiary, 13.8kV	Edison Sault Electric Company		X				1.3	1.5	2.7
INDUSTRL	69kV	WPPI/Sturgeon Bay	X					3.3	3.3	5.4
INGALLS	138kV	Wisconsin Public Service	X					4.3	4.3	6.7
IOLA	69kV	Alliant Energy	X					3.3	3.3	5.4
IOLA	69kV	Central Wisconsin Coop	X					3.3	3.3	5.4
Iron Grove	Tg1, tertiary, 13.8kV	We Energies		X				1.3	1.3	2.4
IRON GROVE	69kV	We Energies	X					3.3	3.3	5.4
IRON GROVE	138kV	We Energies	X					4.3	4.3	6.7
ISLAND	69kV	Alliant Energy	X					3.3	3.3	5.4
JACKPINE	138kV	Dairyland Power Cooperative	X					4.3	4.3	6.7
Jackpine-DPC	69kV	Dairyland Power Cooperative	X					3.3	3.3	5.4
JAMES STREET	138kV	Wisconsin Public Service	X					4.3	4.3	6.7
JANESVILLE	69kV	Alliant Energy	X					3.3	3.3	5.4
JANESVILLE	138kV	Alliant Energy	X					4.3	4.3	6.7
Janesville General	JAN-T32, tertiary, 12.47kV	Alliant Energy		X				1.3	1.5	2.8
JEFFERSON	138kV	We Energies	X					4.3	4.3	6.7
JENNINGS ROAD	69kV	Alliant Energy	X					3.3	3.3	5.4
JUNEAU	69kV	WPPI/Juneau	X					3.3	3.3	5.4
KANSAS	138kV	We Energies	X					4.3	4.3	6.7
KATZENBERG	69kV	Alliant Energy	X					3.3	3.3	5.4
KAUKAUNA CENTRAL	138kV	WPPI/Kaukauna	X					4.3	4.3	6.7
KAUKAUNA_TAP	138kV	We Energies	X					4.3	4.3	6.7
KEGONSA	69kV	Alliant Energy	X					3.3	3.3	5.4
KEGONSA	138kV	Alliant Energy	X					4.3	4.3	6.7
Kegonsa	KEG, tertiary, 13.8kV	Alliant Energy			X			1.3	1.9	3.5
KELLNERSVILLE	69kV	Wisconsin Public Service	X					3.3	3.3	5.4
KELLY	115kV	Wisconsin Public Service	X					3.8	3.8	5.9
KENOSHA	138kV	We Energies	X					4.3	4.3	6.7
KETTLE MORRAINE	138kV	We Energies	X					4.3	4.3	6.7
KEWAUNEE	138kV	Wisconsin Public Service/Dominion	X					4.3	4.3	6.7
KEWAUNEE	345kV	Wisconsin Public Service/Dominion	X					11.3	11.3	17.8
Kewaunee	T10, tertiary, 13.8kV	Wisconsin Public Service/Dominion		X				1.3	1.6	2.8



Arc Flash Categories ATC Facilities
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Substation	Voltage-Equipment	LDC Territory	Hazard/Risk Category (H/RC) Required minimum FR clothing rating					Minimum Approach Distance (ft)	Minimum Approach Distance at 4 cal/cm2 (ft)	Arc Flash Boundary At 1.2cal/cm ² (ft)
			1 (4Cal/cm ²)	2 (8Cal/cm ²)	3 (25Cal/cm ²)	4 (40Cal/cm ²)	X >(40Cal/cm ²)			
KEWEENAW	69kV	Upper Peninsula Power Company	X					3.3	3.3	5.4
KILBOURN	69kV	Alliant Energy	X					3.3	3.3	5.4
KILBOURN	138kV	Alliant Energy	X					4.3	4.3	6.7
Kilbourn	T32, tertiary, 13.8kV	Alliant Energy	X					1.3	1.3	2.0
Kilbourn	T31, tertiary, 4.1 kV	Alliant Energy	X					1.3	1.3	1.5
KINCHELOE	69kV	Edison Sault Electric Company	X					3.3	3.3	5.4
KIRKWOOD	69kV	Alliant Energy	X					3.3	3.3	5.4
KIRKWOOD	138kV	Alliant Energy	X					4.3	4.3	6.7
Kirkwood	T32, tertiary, 13.8kV	Alliant Energy		X				1.3	1.5	2.8
Kirkwood	T31, tertiary, 12.47kV	Alliant Energy			X			1.3	1.9	3.5
KISAWYER	69kV	Upper Peninsula Power Company	X					3.3	3.3	5.4
KM LOCKS	138kV	We Energies	X					4.3	4.3	6.7
KM MELISSA	138kV	WPPI/Menasha	X					4.3	4.3	6.7
KM NORTH 34	138kV	WPPI/Kaukauna	X					4.3	4.3	6.7
KM NORTHSIDE	138kV	WPPI/Menasha	X					4.3	4.3	6.7
KM TAYCO	138kV	WPPI/Menasha	X					4.3	4.3	6.7
KOCH OIL	69kV	Alliant Energy	X					3.3	3.3	5.4
KOHLER	138kV	Alliant Energy	X					4.3	4.3	6.7
KSFRD METAL	69kV	We Energies	X					3.3	3.3	5.4
LA CROSSE - XCEL	161kV	Dairyland Power Cooperative	X					4.8	4.8	7.4
LA MAR	69kV	Alliant Energy	X					3.3	3.3	5.4
LA PRAIRIE	138kV	Rock Electric Cooperative	X					4.3	4.3	6.7
LAKE DELTON	138kV	Alliant Energy	X					4.3	4.3	6.7
LAKE FRONT	69kV	GLU/Manitowoc Public Utilities	X					3.3	3.3	5.4
LAKE GENEVA	69kV	Alliant Energy	X					3.3	3.3	5.4
LAKE MINE	69kV	Upper Peninsula Power Company	X					3.3	3.3	5.4
LAKE PARK	138kV	We Energies	X					4.3	4.3	6.7
LAKEHEAD	138kV	We Energies	X					4.3	4.3	6.7
LAKEHEAD 69	69kV	Upper Peninsula Power Company	X					3.3	3.3	5.4
LAKEHEAD DELAVAN	138kV	We Energies	X					4.3	4.3	6.7
LAKEHEAD IRON RIVER	69kV	We Energies	X					3.3	3.3	5.4
LAKEHEAD Manistique	69kV	Edison Sault Electric Company	X					3.3	3.3	5.4
LAKEHEAD NAUBINWAY	138kV	Edison Sault Electric Company	X					4.3	4.3	6.7
LAKEHEAD Waterloo4	138kV	We Energies	X					4.3	4.3	6.7
LAKEVIEW	138kV	We Energies	X					4.3	4.3	6.7
LAKOTA RD	138kV	We Energies	X					4.3	4.3	6.7
LAKOTA RD	69kV	We Energies	X					3.3	3.3	5.4
LAKOTA RD	115kV	We Energies	X					3.8	3.8	5.9
Lakota Rd	TG1, tertiary, 13.8kV	We Energies		X				1.3	1.8	6.1
Lakota Rd	TG2, tertiary, 13.8kV	We Energies		X				1.3	2.5	8.6
LAMONT	69kV	Alliant Energy	X					3.3	3.3	5.4
LANCASTER	69kV	Alliant Energy	X					3.3	3.3	5.4
LANCASTER	138kV	Alliant Energy	X					4.3	4.3	6.7
Lancaster	LAN-T31, tertiary, 12.47kV	Alliant Energy	X					1.3	1.3	1.5
LAND O LAKES	69kV	We Energies	X					3.3	3.3	5.4
LAND'S END	69kV	Alliant Energy	X					3.3	3.3	5.4
L'ANSE	69kV	Upper Peninsula Power Company	X					3.3	3.3	5.4



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Substation	Voltage-Equipment	LDC Territory	Hazard/Risk Category (H/RC) Required minimum FR clothing rating					Minimum Approach Distance (ft)	Minimum Approach Distance at 4 cal/cm ² (ft)	Arc Flash Boundary At 1.2cal/cm ² (ft)
			1 (4Cal/cm ²)	2 (8Cal/cm ²)	3 (25Cal/cm ²)	4 (40Cal/cm ²)	X >(40Cal/cm ²)			
LAPOINT	69kV	Alliant Energy	X					3.3	3.3	5.4
LAWN ROAD	138kV	We Energies	X					4.3	4.3	6.7
LEDGEVIEW	138kV	Alliant Energy	X					4.3	4.3	6.7
LENA	69kV	Wisconsin Public Service	X					3.3	3.3	5.4
LEWISTON	138kV	Adams Columbia Electric Cooperat	X					4.3	4.3	6.7
LIBERTY	69kV	Wisconsin Public Service	X					3.3	3.3	5.4
LIBERTY	138kV	Wisconsin Public Service	X					4.3	4.3	6.7
Liberty St	6, tertiary, 2.4kV	Wisconsin Public Service				X		1.3	3.3	6.1
LINCOLN	138kV	We Energies	X					4.3	4.3	6.7
LINCOLN - UPPCO	69kV	Upper Peninsula Power Company	X					3.3	3.3	5.4
LINCOLN PUMPING STA	69kV	Alliant Energy	X					3.3	3.3	5.4
LOCH MIRROR	138kV	Alliant Energy	X					4.3	4.3	6.7
LODESTAR	138kV	Alliant Energy	X					4.3	4.3	6.7
LODI	69kV	WPPI/Lodi	X					3.3	3.3	5.4
LODI INDUSTRIAL PAR	69kV	WPPI/Lodi	X					3.3	3.3	5.4
LOGANVILLE	69kV	Alliant Energy	X					3.3	3.3	5.4
LONDON	138kV	Alliant Energy	X					4.3	4.3	6.7
LONE ROCK	69kV	Alliant Energy	X					3.3	3.3	5.4
LOST DAUPHIN	69kV	Wisconsin Public Service	X					3.3	3.3	5.4
LOST DAUPHIN	138kV	Wisconsin Public Service	X					4.3	4.3	6.7
Lost Dauphin	1, tertiary, 2.4kV	Wisconsin Public Service				X		1.3	3.5	6.3
LOUIS-PAC 69	69kV	Cloverland	X					3.3	3.3	5.4
LUX_NEW	69kV	Wisconsin Public Service	X					3.3	3.3	5.4
LYNDON	138kV	We Energies	X					4.3	4.3	6.7
LYNDON STATION	69kV	Alliant Energy	X					3.3	3.3	5.4
M-38	69kV	Upper Peninsula Power Company	X					3.3	3.3	5.4
M-38	138kV	Upper Peninsula Power Company	X					4.3	4.3	6.7
M-38	T1, tertiary, 13.8kV	Upper Peninsula Power Company		X				1.3	1.7	3.0
MACKFORD PRAIRIE	69kV	Alliant Energy	X					3.3	3.3	5.4
MACY STREET	69kV	Alliant Energy	X					3.3	3.3	5.4
MAES	138kV	We Energies	X					4.3	4.3	6.7
MAGAZINE 69	69kV	Edison Sault Electric Company	X					3.3	3.3	5.4
MAINE	115kV	Wisconsin Public Service	X					3.8	3.8	5.9
MANISTIQUE	69kV	Edison Sault Electric Company	X					3.3	3.3	5.4
MANLEY SAND	69kV	Alliant Energy	X					3.3	3.3	5.4
MANRAP	69kV	Wisconsin Public Service	X					3.3	3.3	5.4
MAPLE	138kV	We Energies	X					4.3	4.3	6.7
MAPLEWOOD	138kV	Wisconsin Public Service	X					4.3	4.3	6.7
MARINE	138kV	Alliant Energy	X					4.3	4.3	6.7
MARION	69kV	Alliant Energy	X					3.3	3.3	5.4
MARKESAN	69kV	Alliant Energy	X					3.3	3.3	5.4
MASON ST	138kV	Wisconsin Public Service	X					4.3	4.3	6.7
MASONVILLE	69kV	Upper Peninsula Power Company	X					3.3	3.3	5.4
MASS	69kV	We Energies	X					3.3	3.3	5.4
MAUSTON	69kV	Alliant Energy	X					3.3	3.3	5.4
MAYVILLE	69kV	Alliant Energy	X					3.3	3.3	5.4
MAZOMANIE	69kV	Alliant Energy	X					3.3	3.3	5.4



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Substation	Voltage-Equipment	LDC Territory	Hazard/Risk Category (H/RC) Required minimum FR clothing rating					Minimum Approach Distance (ft)	Minimum Approach Distance at 4 cal/cm ² (ft)	Arc Flash Boundary At 1.2cal/cm ² (ft)
			1 (4Cal/cm ²)	2 (8Cal/cm ²)	3 (25Cal/cm ²)	4 (40Cal/cm ²)	X >(40Cal/cm ²)			
MC CUE	69kV	Alliant Energy	X					3.3	3.3	5.4
MC CUE	138kV	Alliant Energy	X					4.3	4.3	6.7
MC FARLAND	138kV	Alliant Energy	X					4.3	4.3	6.7
McCue	MCU, tertiary, 12.47kV	Alliant Energy			X			1.3	2.1	3.8
MCGLPNEW 138	138kV	Edison Sault Electric Company	X					4.3	4.3	6.7
MCGREGOR	69kV	Alliant Energy	X					3.3	3.3	5.4
MCGULPIN 138	138kV	Edison Sault Electric Company	X					4.3	4.3	6.7
MCKENNA	69kV	Alliant Energy	X					3.3	3.3	5.4
MCMILLAN	115kV	GLU/Wisconsin Public Service/M	X					3.8	3.8	5.9
MEAD PAPER	69kV	Upper Peninsula Power Company	X					3.3	3.3	5.4
MEADOWS	138kV	WPPI/Menasha	X					4.3	4.3	6.7
MEADPUMP	69kV	Upper Peninsula Power Company	X					3.3	3.3	5.4
MEARS CORNERS	138kV	Wisconsin Public Service	X					4.3	4.3	6.7
MENASHA TAP	138kV	WPPI/Menasha	X					4.3	4.3	6.7
MENDOTA	69kV	Alliant Energy	X					3.3	3.3	5.4
MENOMINEE	138kV	Wisconsin Public Service	X					4.3	4.3	6.7
MENOMINEE	69kV	Wisconsin Public Service	X					3.3	3.3	5.4
MEQUON	138kV	We Energies	X					4.3	4.3	6.7
MERCURY MARINE	69kV	Alliant Energy	X					3.3	3.3	5.4
MERCURY MARINE 2ND	69kV	Alliant Energy	X					3.3	3.3	5.4
MERRILL HILLS	138kV	We Energies	X					4.3	4.3	6.7
MERRIMAC	69kV	Alliant Energy	X					3.3	3.3	5.4
METOMEN	69kV	Alliant Energy	X					3.3	3.3	5.4
METOMEN	138kV	Alliant Energy	X					4.3	4.3	6.7
Metomen	T31, tertiary, 12.47kV	Alliant Energy	X					1.3	1.3	2.1
METONGA	115kV	Wisconsin Public Service	X					3.8	3.8	5.9
MEYER ROAD	138kV	GLU/Keil Utilities	X					4.3	4.3	6.7
MI LIMESTONE 6906 Q	69kV	Edison Sault Electric Company	X					3.3	3.3	5.4
MICH FALLS	69kV	We Energies	X					3.3	3.3	5.4
MICHIGAN ST	69kV	WPPI/Sturgeon Bay	X					3.3	3.3	5.4
MILL CREEK	138kV	Marshfield Electric	X					3.8	3.8	5.9
MILL ROAD SITE	345kV	We Energies	X					11.3	11.3	17.8
MILTON LAWNS	69kV	Alliant Energy	X					3.3	3.3	5.4
MINERAL POINT	69kV	Alliant Energy	X					3.3	3.3	5.4
MINERS	69kV	Alliant Energy	X					3.3	3.3	5.4
MIRRO	69kV	GLU/Manitowoc Public Utilities	X					3.3	3.3	5.4
MISHICOT	138kV	Wisconsin Public Service	X					4.3	4.3	6.7
MONROE	69kV	Alliant Energy	X					3.3	3.3	5.4
MONROE COUNTY - XCE	161kV	Dairyland Power Cooperative	X					4.8	4.8	7.4
MONTANA	138kV	We Energies	X					4.3	4.3	6.7
MONTELLO	69kV	Adams Columbia Electric Cooper	X					3.3	3.3	5.4
MONTELLO	69kV	Alliant Energy	X					3.3	3.3	5.4
MONTICELLO	69kV	Alliant Energy	X					3.3	3.3	5.4
MOORE ST	69kV	Alliant Energy	X					3.3	3.3	5.4
MOORLAND	138kV	We Energies	X					4.3	4.3	6.7
MORGAN	345kV	We Energies	X					11.3	11.3	17.8
MORGAN	138kV	We Energies	X					4.3	4.3	6.7



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Substation	Voltage-Equipment	LDC Territory	Hazard/Risk Category (H/RC) Required minimum FR clothing rating					Minimum Approach Distance (ft)	Minimum Approach Distance at 4 cal/cm ² (ft)	Arc Flash Boundary At 1.2cal/cm ² (ft)
			1 (4Cal/cm ²)	2 (8Cal/cm ²)	3 (25Cal/cm ²)	4 (40Cal/cm ²)	X >(40Cal/cm ²)			
Morgan	TRANSF 1, tertiary, 24.9kV	We Energies			X			1.3	2.2	4.0
MORRIS STREET	69kV	Alliant Energy	X					3.3	3.3	5.4
MORRISON	115kV	We Energies		X				3.8	4.8	7.8
MOUNT HOREB	69kV	Alliant Energy	X					3.3	3.3	5.4
MOUNT HOREB MUNI	69kV	WPPI/Mt Horeb	X					3.3	3.3	5.4
MOUNTAIN	69kV	Wisconsin Public Service	X					3.3	3.3	5.4
MTU	69kV	Upper Peninsula Power Company	X					3.3	3.3	5.4
MUKWONAGO	138kV	We Energies	X					4.3	4.3	6.7
MULLET RIVER	138kV	We Energies	X					4.3	4.3	6.7
Mullet River	T31, tertiary, 12.47kV	Alliant Energy	X					1.3	1.3	2.1
MUNISING	69kV	Upper Peninsula Power Company	X					3.3	3.3	5.4
MUNISING	138kV	Upper Peninsula Power Company	X					4.3	4.3	6.7
Munising	5267, tertiary, 13.8kV	Upper Peninsula Power Company	X					1.3	1.3	1.9
MUSCODA	69kV	WPPI/Muscoda	X					3.3	3.3	5.4
MUTUALS	161kV	Dairyland Power Cooperative	X					4.8	4.8	7.4
MYSTHILL	138kV	Wisconsin Public Service	X					4.3	4.3	6.7
N LAK GEN TP	138kV	Alliant Energy	X					4.3	4.3	6.7
NATHAN	69kV	WPPI/Aldger Delta REA	X					3.3	3.3	5.4
NATIONAL	138kV	We Energies	X					4.3	4.3	6.7
NECEDAH	69kV	Alliant Energy	X					3.3	3.3	5.4
NEENAH CREEK	69kV	Alliant Energy	X					3.3	3.3	5.4
NEEVIN	138kV	We Energies	X					4.3	4.3	6.7
NELSON DEWEY	69kV	Alliant Energy	X					3.3	3.3	5.4
NELSON DEWEY	161kV	Dairyland Power Cooperative	X					4.8	4.8	7.4
NELSON DEWEY	138kV	Alliant Energy	X					4.3	4.3	6.7
Nelson Dewey	NED-T91, tertiary, 7.14kV	Alliant Energy	X					1.3	2.1	3.8
Nelson Dewey	T31, tertiary, 4.16kV	Alliant Energy			X			1.3	2.1	3.8
Nelson Dewey	T32, tertiary, 4.16kV	Alliant Energy			X			1.3	1.3	1.6
NEW GLARUS	69kV	Alliant Energy	X					3.3	3.3	5.4
NEW HOLLANDALE	69kV	Alliant Energy	X					3.3	3.3	5.4
NEW HOLSTEIN	69kV	WPPI/New Holstein	X					3.3	3.3	5.4
New Holstein CITY SUB	69kV	WPPI/New Holstein	X					3.3	3.3	5.4
NEW LISBON	69kV	Alliant Energy	X					3.3	3.3	5.4
NEWARK	69kV	Rock Electric Cooperative	X					3.3	3.3	5.4
NEWBERRY 69	69kV	Cloverland	X					3.3	3.3	5.4
NEWBERRY PRISON	69kV	Cloverland	X					3.3	3.3	5.4
NEWBERRY W&L G1	69kV	Cloverland	X					3.3	3.3	5.4
NIAGARA OF WI	138kV	We Energies	X					4.3	4.3	6.7
NICHOLSON B2	138kV	We Energies	X					4.3	4.3	6.7
NICOLET	69kV	Alliant Energy	X					3.3	3.3	5.4
NINE Mile Sw.	69kV	Edison Sault Electric Company	X					3.3	3.3	5.4
NINE SPRINGS	69kV	Madison Gas and Electric	X					3.3	3.3	5.4
NORDIC	69kV	We Energies	X					3.3	3.3	5.4
NORDIC	138kV	We Energies	X					4.3	4.3	6.7
Nordic	T8, tertiary, 13.8kV	We Energies		X				1.3	2.4	8.3
North Appleton	TRANSF 1(A phase), tertiary, 34.5kV	We Energies		X				1.3	1.5	2.7
North Appleton	TRANSF 3(A phase), tertiary, 34.5kV	We Energies		X				1.5	2.7	



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Substation	Voltage-Equipment	LDC Territory	Hazard/Risk Category (H/RC) Required minimum FR clothing rating					Minimum Approach Distance (ft)	Minimum Approach Distance at 4 cal/cm ² (ft)	Arc Flash Boundary At 1.2cal/cm ² (ft)
			1 (4Cal/cm ²)	2 (8Cal/cm ²)	3 (25Cal/cm ²)	4 (40Cal/cm ²)	X >(40Cal/cm ²)			
NORTH APPLETON	138kV	We Energies	X					4.3	4.3	6.7
NORTH APPLETON	345kV	We Energies	X					11.3	11.3	17.8
NORTH BEAVER DAM	69kV	Alliant Energy	X					3.3	3.3	5.4
NORTH BEAVER DAM	138kV	Alliant Energy	X					4.3	4.3	6.7
North Beaver Dam	T31, tertiary, 13.8kV	Alliant Energy			X			1.3	1.9	3.4
NORTH BLUFF	69kV	Upper Peninsula Power Company	X					3.3	3.3	5.4
NORTH FOND DU LAC	69kV	Alliant Energy	X					3.3	3.3	5.4
NORTH FOND DU LAC	138kV	Alliant Energy	X					4.3	4.3	6.7
North Fond du Lac	T31, tertiary, 12.47kV	Alliant Energy		X				1.3	1.4	2.5
North Fond du Lac	T34, tertiary, 12.47kV	Alliant Energy		X				1.3	1.4	2.5
NORTH LAKE	69kV	Upper Peninsula Power Company	X					3.3	3.3	5.4
NORTH LAKE	138kV	Upper Peninsula Power Company	X					4.3	4.3	6.7
NORTH LAKE GENEVA	69kV	Alliant Energy	X					3.3	3.3	5.4
NORTH LAKE GENEVA	138kV	Alliant Energy	X					4.3	4.3	6.7
North Lake Geneva	ALL-NLG 01, tertiary, 13.8kV	Alliant Energy			X			1.3	1.9	3.5
NORTH MADISON	69kV	Alliant Energy	X					3.3	3.3	5.4
NORTH MADISON	345kV	Madison Gas and Electric	X					11.3	11.3	17.8
NORTH MADISON	138kV	Madison Gas and Electric	X					4.3	4.3	6.7
North Madison (MGE 345/138 kV)	T21, tertiary, 24.9kV	Madison Gas and Electric		X				1.3	1.5	2.8
North Madison (MGE 345/138 kV)	T22, tertiary, 24.9kV	Madison Gas and Electric		X				1.3	1.5	2.8
NORTH MONROE	69kV	Alliant Energy	X					3.3	3.3	5.4
NORTH MONROE	138kV	Alliant Energy	X					4.3	4.3	6.7
North Monroe	T31, tertiary, 12.47kV	Alliant Energy		X				1.3	1.4	2.6
NORTH MULLET RIVER	69kV	Alliant Energy	X					3.3	3.3	5.4
NORTH RANDOLPH	69kV	Alliant Energy	X					3.3	3.3	5.4
NORTH RANDOLPH	138kV	Alliant Energy	X					4.3	4.3	6.7
North Randolph	T31, tertiary, 12.47kV	Alliant Energy	X					1.3	1.3	2.1
North Randolph	T32, tertiary, 12.47kV	Alliant Energy	X					1.3	1.3	2.0
NORTH STOUGHTON	69kV	WPPI/Stoughton	X					3.3	3.3	5.4
NORTH TOMAH	69kV	Alliant Energy	X					3.3	3.3	5.4
NORTHEAST	69kV	WPPI/Mt Horeb	X					3.3	3.3	5.4
Northern Steel Cast	69kV	Alliant Energy	X					3.3	3.3	5.4
NORTHGATE SUB	138kV	Alliant Energy	X					4.3	4.3	6.7
NORTHPOINT	115kV	Wisconsin Public Service	X					3.8	3.8	5.9
NORTHWEST BELOIT	69kV	Alliant Energy	X					3.3	3.3	5.4
NORTHWEST RIPON	69kV	Alliant Energy	X					3.3	3.3	5.4
NORWICH	138kV	We Energies	X					4.3	4.3	6.7
NOW TAP 2	138kV	We Energies	X					4.3	4.3	6.7
Oak Creek	TRANSF 88, tertiary, 13.8kV	We Energies				X		1.3	3.2	5.8
Oak Creek	TRANSF 851, tertiary, 13.8kV	We Energies			X			1.3	2.1	3.7
Oak Creek	TRANSF 884, tertiary, 13.8kV	We Energies			X			1.3	2.3	4.2
OAK CREEK 138kV	138kV	We Energies			X			4.3	7.0	11.6
OAK CREEK 230kV	230kV	We Energies	X					6.7	6.7	10.2
OAK CREEK PLANT	138kV	We Energies		X				4.3	5.2	8.5
OAK RIDGE	138kV	Madison Gas and Electric	X					4.3	4.3	6.7
OAK ST.	69kV	Wisconsin Public Service	X					3.3	3.3	5.4
OAKFIELD	69kV	Alliant Energy	X					3.3	3.3	5.4



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Substation	Voltage-Equipment	LDC Territory	Hazard/Risk Category (H/RC) Required minimum FR clothing rating					Minimum Approach Distance (ft)	Minimum Approach Distance at 4 cal/cm ² (ft)	Arc Flash Boundary At 1.2cal/cm ² (ft)
			1 (4Cal/cm ²)	2 (8Cal/cm ²)	3 (25Cal/cm ²)	4 (40Cal/cm ²)	X >(40Cal/cm ²)			
OCEAN SPRAY	69kV	Alliant Energy	X					3.3	3.3	5.4
OCONNOR	138kV	We Energies	X					4.3	4.3	6.7
OCONTO	138kV	Wisconsin Public Service	X					4.3	4.3	6.7
OGDEN ST	69kV	Wisconsin Public Service	X					3.3	3.3	5.4
OHMSTEAD SW STATION	138kV	We Energies	X					4.3	4.3	6.7
OKEE	69kV	Alliant Energy	X					3.3	3.3	5.4
OKRAY	115kV	Wisconsin Public Service	X					3.8	3.8	5.9
OLD WINONA	69kV	Upper Peninsula Power Company	X					3.3	3.3	5.4
OMRO	69kV	Alliant Energy	X					3.3	3.3	5.4
OMRO INDUSTRIAL	69kV	Alliant Energy	X					3.3	3.3	5.4
ONTARIO	138kV	Wisconsin Public Service	X					4.3	4.3	6.7
ONTONAGON	69kV	Upper Peninsula Power Company	X					3.3	3.3	5.4
ONTONAGON	138kV	Upper Peninsula Power Company	X					4.3	4.3	6.7
Ontonagon	24, tertiary, 13.8kV	Upper Peninsula Power Company	X					1.3	1.3	1.8
OREGON	69kV	Alliant Energy	X					3.3	3.3	5.4
ORFORDVILLE	69kV	Rock Electric Cooperative	X					3.3	3.3	5.4
ORFORDVILLE	69kV	Alliant Energy	X					3.3	3.3	5.4
OSCEOLA	69kV	Upper Peninsula Power Company	X					3.3	3.3	5.4
OSHKOSH	69kV	Wisconsin Public Service	X					3.3	3.3	5.4
PADDOCK	69kV	Alliant Energy	X					3.3	3.3	5.4
PADDOCK	345kV	Alliant Energy	X					11.3	11.3	17.8
PADDOCK	138kV	Alliant Energy	X					4.3	4.3	6.7
Paddock	T31B, tertiary, 12.47kV	Alliant Energy				X		1.3	3.5	6.4
Paddock	PAD-T21, tertiary, 13.8kV	Alliant Energy		X				1.3	1.7	3.1
PARDEEVILLE	69kV	Alliant/Pardeeville	X					3.3	3.3	5.4
PARIS	138kV	We Energies	X					4.3	4.3	6.7
PARK HILL	138kV	We Energies	X					4.3	4.3	6.7
PARK STREET	69kV	Alliant Energy	X					3.3	3.3	5.4
PARK VIEW	69kV	Alliant Energy	X					3.3	3.3	5.4
PARKLAND	138kV	We Energies	X					4.3	4.3	6.7
PEARL AV	69kV	Wisconsin Public Service	X					3.3	3.3	5.4
PEAVY	69kV	We Energies	X					3.3	3.3	5.4
PENNSYLV	138kV	We Energies	X					4.3	4.3	6.7
PERCH LAKE	69kV	Upper Peninsula Power Company	X					3.3	3.3	5.4
PERCH LAKE	138kV	Alliant Energy	X					4.3	4.3	6.7
Perch Lake	921 - MTF, tertiary, 13.8kV	Upper Peninsula Power Company	X					1.3	1.3	2.1
PERKINS	138kV	Edison Sault Electric Company	X					4.3	4.3	6.7
PETENWELL	69kV	Alliant Energy	X					3.3	3.3	5.4
PETENWELL	138kV	Alliant Energy	X					4.3	4.3	6.7
Petenwell	T31, tertiary, 4kV	Alliant Energy			X			1.3	2.1	3.9
PFLAUM	69kV	Madison Gas and Electric	X					3.3	3.3	5.4
PHEASANT BRANCH	69kV	Madison Gas and Electric	X					3.3	3.3	5.4
PICKFORD	69kV	Cloverland	X					3.3	3.3	5.4
PIEHL	115kV	Wisconsin Public Service	X					3.8	3.8	5.9
PINE	115kV	Wisconsin Public Service	X					3.8	3.8	5.9
PINE LAKE	69kV	We Energies	X					3.3	3.3	5.4
PINE RIVER	69kV	Alliant Energy	X					3.3	3.3	5.4



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Substation	Voltage-Equipment	LDC Territory	Hazard/Risk Category (H/RC) Required minimum FR clothing rating					Minimum Approach Distance (ft)	Minimum Approach Distance at 4 cal/cm2 (ft)	Arc Flash Boundary At 1.2cal/cm ² (ft)
			1 (4Cal/cm ²)	2 (8Cal/cm ²)	3 (25Cal/cm ²)	4 (40Cal/cm ²)	X >(40Cal/cm ²)			
PINE RIVER (ESE)	69kV	Edison Sault Electric Company	X					3.3	3.3	5.4
PINEGROVE 69	69kV	Edison Sault Electric Company	X					3.3	3.3	5.4
PIONEER	69kV	Alliant Energy	X					3.3	3.3	5.4
PIONEER	69kV	Wisconsin Public Service	X					3.3	3.3	5.4
PIONEER	138kV	Wisconsin Public Service	X					4.3	4.3	6.7
Pioneer	1, tertiary, 13.8kV	Wisconsin Public Service		X				1.3	1.3	2.3
PITTSVILLE	69kV	Alliant Energy	X					3.3	3.3	5.4
PLAINFIELD	69kV	Adams Columbia Electric Cooper	X					3.3	3.3	5.4
PLAINS	69kV	We Energies	X					3.3	3.3	5.4
PLAINS	138kV	We Energies	X					4.3	4.3	6.7
PLAINS	345kV	We Energies	X					11.3	11.3	17.8
Plains	TRANSFORMER 9, tertiary, 13.8kV	We Energies			X			1.3	1.5	2.7
Plains	TRANSF 8, tertiary, 13.8kV	We Energies		X				1.3	1.5	2.7
Plains	TRANSF 1, tertiary, 24.9kV	We Energies			X			1.3	1.9	3.6
PLATT	69kV	Alliant/Wisconsin Dells	X					3.3	3.3	5.4
PLATTEVILLE-DPC	69kV	Alliant Energy	X					3.3	3.3	5.4
PLEASANT VALLEY	138kV	We Energies	X					4.3	4.3	6.7
PLEASANT VIEW	138kV	Alliant Energy	X					4.3	4.3	6.7
PLEASANT_PRAIRIE	345kV	We Energies	X					11.3	11.3	17.8
PLOVER	115kV	Wisconsin Public Service	X					3.8	3.8	5.9
PLYMOUTH	69kV	Alliant Energy	X					3.3	3.3	5.4
PLYMOUTH	138kV	Alliant Energy	X					4.3	4.3	6.7
Plymouth Muni #3	69kV	WPPI/Plymouth	X					3.3	3.3	5.4
POINT LEBARBE 138	138kV	Edison Sault Electric Company	X					4.3	4.3	6.7
POINT BEACH	345kV	FPL Energy	X					11.3	11.3	17.8
POLAR	69kV	Alliant Energy	X					3.3	3.3	5.4
PORT EDWARDS	69kV	Alliant Energy	X					3.3	3.3	5.4
PORT EDWARDS	138kV	Alliant Energy	X					4.3	4.3	6.7
Port Edwards	T32, tertiary, 13.8kV	Alliant Energy			X			1.3	2.0	3.6
Port Edwards	T81, tertiary, 12.47kV	Alliant Energy			X			1.3	2.0	3.7
PORT WASHINGTON	138kV	We Energies		X				4.3	4.6	7.3
PORTAGE	69kV	Alliant Energy	X					3.3	3.3	5.4
PORTAGE	138kV	Alliant Energy	X					4.3	4.3	6.7
Portage	T32, tertiary, 13.8kV	Alliant Energy			X			1.3	2.0	3.7
PORTAGE INDUSTRIAL	69kV	Alliant Energy	X					3.3	3.3	5.4
PORTAGE UPPCO	69kV	Upper Peninsula Power Company	X					3.3	3.3	5.4
POTOSI	138kV	Alliant Energy	X					4.3	4.3	6.7
POUND	69kV	Wisconsin Public Service	X					3.3	3.3	5.4
POWERS	69kV	We Energies	X					3.3	3.3	5.4
POYNETTE	69kV	Alliant Energy	X					3.3	3.3	5.4
PRAIRIE DU CHIEN	69kV	Alliant Energy	X					3.3	3.3	5.4
PRAIRIE DU SAC MUNI	69kV	WPPI/Prairie du Sac	X					3.3	3.3	5.4
PREBLE	138kV	Wisconsin Public Service	X					4.3	4.3	6.7
PRESQ_ISLE	69kV	We Energies	X					3.3	3.3	5.4
PRESQ_ISLE	138kV	We Energies	X					4.3	4.3	6.7
Presque Isle	Marquette tie transformer, tertiary, B	We Energies	N/A					1.3	N/A	N/A
PROG AVE	138kV	Wisconsin Public Service	X					4.3	4.3	6.7



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Substation	Voltage-Equipment	LDC Territory	Hazard/Risk Category (H/RC) Required minimum FR clothing rating					Minimum Approach Distance (ft)	Minimum Approach Distance at 4 cal/cm2 (ft)	Arc Flash Boundary At 1.2cal/cm ² (ft)
			1 (4Cal/cm ²)	2 (8Cal/cm ²)	3 (25Cal/cm ²)	4 (40Cal/cm ²)	X >(40Cal/cm ²)			
PTLABARB 138	138kV	Wisconsin Public Service	X					4.3	4.3	6.7
PULLIAM	69kV	Wisconsin Public Service	X					3.3	3.3	5.4
PULLIAM	138kV	We Energies	X					4.3	4.3	6.7
Pulliam	16, tertiary, 2.4kV	Wisconsin Public Service			X			1.3	2.5	4.6
QUINCY	69kV	Adams Columbia Electric Cooperat	X					3.3	3.3	5.4
RACINE	345kV	We Energies	X					11.3	11.3	17.8
RACINE	138kV	We Energies	X					4.3	4.3	6.7
Racine	TRANSF 2, tertiary, 24.9kV	We Energies		X				1.3	2.9	5.3
Racine	TRANSF 1, tertiary, 24.9kV	We Energies			X			1.3	1.9	3.5
RACO 69	69kV	Cloverland	X					3.3	3.3	5.4
RAMSEY	138kV	We Energies	X					4.3	4.3	6.7
RANDOLPH	69kV	Alliant Energy	X					3.3	3.3	5.4
RANDVILLE	69kV	We Energies	X					3.3	3.3	5.4
RANGE LNE	138kV	We Energies	X					4.3	4.3	6.7
RAPIDS	69kV	GLU/Manitowoc Public Utilities	X					3.3	3.3	5.4
REDMAPLE	138kV	Wisconsin Public Service	X					4.3	4.3	6.7
REDWOOD	69kV	WPPI/Sturgeon Bay	X					3.3	3.3	5.4
REEDSBURG	69kV	Alliant Energy	X					3.3	3.3	5.4
REEDSBURG GREDE 2	69kV	WPPI/Reedsburg	X					3.3	3.3	5.4
REEDSBURG GREDE 7	69kV	WPPI/Reedsburg	X					3.3	3.3	5.4
REEDSBURG INDUSTRIA	69kV	WPPI/Reedsburg	X					3.3	3.3	5.4
REEDSBURG MAIN	69kV	WPPI/Reedsburg	X					3.3	3.3	5.4
REEDSBURG NISHAN	138kV	WPPI/Reedsburg	X					4.3	4.3	6.7
REEDSBURG NISHAN TA	138kV	Alliant Energy	X					4.3	4.3	6.7
Reiner Rd	T31, tertiary, 13.8kV	Alliant Energy		X				1.3	1.7	3.2
REINER ROAD	69kV	Alliant Energy	X					3.3	3.3	5.4
REINER ROAD	138kV	Alliant Energy	X					4.3	4.3	6.7
REVERE D	69kV	GLU/Manitowoc Public Utilities	X					3.3	3.3	5.4
REWEY	69kV	Alliant Energy	X					3.3	3.3	5.4
REXTON 69	69kV	Edison Sault Electric Company	X					3.3	3.3	5.4
RHINELANDER PAPER C	115kV	Wisconsin Public Service	X					3.8	3.8	5.9
RICHFORD	69kV	Adams Columbia Electric Cooperat	X					3.3	3.3	5.4
RICHLAND	69kV	Alliant Energy	X					3.3	3.3	5.4
RICHLAND CENTER	69kV	WPPI/Richland Center	X					3.3	3.3	5.4
RIENZI ROAD	138kV	Alliant Energy	X					4.3	4.3	6.7
RIO PUMPING STATION	69kV	Alliant Energy	X					3.3	3.3	5.4
RIPON	69kV	Alliant Energy	X					3.3	3.3	5.4
RIVER ROAD	69kV	Alliant Energy	X					3.3	3.3	5.4
RIVER RUN	69kV	Alliant Energy	X					3.3	3.3	5.4
RIVERSIDE	69kV	Alliant Energy	X					3.3	3.3	5.4
ROBERTS	69kV	Cloverland	X					3.3	3.3	5.4
ROCK BRANCH	69kV	Alliant Energy	X					3.3	3.3	5.4
ROCK ENERGY CO-OP R	69kV	Rock Electric Cooperative	X					3.3	3.3	5.4
ROCK RIVER	69kV	Alliant Energy	X					3.3	3.3	5.4
ROCK RIVER	138kV	Alliant Energy	X					4.3	4.3	6.7
Rock River	T32, tertiary, 12.4kV	Alliant Energy	X					1.3	1.3	2.0
ROCK SPRINGS	138kV	Alliant Energy	X					4.3	4.3	6.7



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Substation	Voltage-Equipment	LDC Territory	Hazard/Risk Category (H/RC) Required minimum FR clothing rating					Minimum Approach Distance (ft)	Minimum Approach Distance at 4 cal/cm2 (ft)	Arc Flash Boundary At 1.2cal/cm ² (ft)
			1 (4Cal/cm ²)	2 (8Cal/cm ²)	3 (25Cal/cm ²)	4 (40Cal/cm ²)	X >(40Cal/cm ²)			
ROCKDALE	345kV	Alliant Energy	X					11.3	11.3	17.8
ROCKDALE	138kV	Alliant Energy		X				4.3	5.5	8.9
Rockdale	ROE-T22, tertiary, 13.8kV	Alliant Energy					X	1.3	14.2	48.9
Rockdale	ROE-T23, 24.9kV	Alliant Energy			X			1.3	3.0	5.5
ROCKLAND	138kV	Wisconsin Public Service	X					4.3	4.3	6.7
ROCKLAND JCT	69kV	Upper Peninsula Power Company	X					3.3	3.3	5.4
ROCKVIEW 69	69kV	Edison Sault Electric Company	X					3.3	3.3	5.4
ROCKY RUN	345kV	Wisconsin Public Service	X					11.3	11.3	17.8
ROCKY RUN	115kV	Wisconsin Public Service,Consoli	X					3.8	3.8	5.9
Rocky Run	1, tertiary, 12.5kV	Wisconsin Public Service			X			1.3	1.8	3.3
Rocky Run	4, tertiary, 12.5kV	Wisconsin Public Service			X			1.3	2.0	3.6
Rocky Run	2, tertiary, 12.5kV	Wisconsin Public Service			X			1.3	2.1	3.9
ROEDER	138kV	Alliant Energy	X					4.3	4.3	6.7
ROOSEVELT RD	138kV	Wisconsin Public Service	X					4.3	4.3	6.7
ROOSEVELT RD	69kV	Wisconsin Public Service	X					3.3	3.3	5.4
Roosevelt Rd	3, tertiary, 13.8kV	Wisconsin Public Service	X					1.3	1.3	2.3
ROOT RIVER	138kV	We Energies	X					4.3	4.3	6.7
ROSENDALE	69kV	Alliant Energy	X					3.3	3.3	5.4
ROSHOLT	69kV	Alliant Energy	X					3.3	3.3	5.4
ROSIERE	138kV	Wisconsin Public Service	X					4.3	4.3	6.7
ROSLIN	69kV	Adams Columbia Electric Coopera	X					3.3	3.3	5.4
ROYSTER	69kV	Madison Gas and Electric	X					3.3	3.3	5.4
ROZELLVILLE	69kV	Alliant Energy	X					3.3	3.3	5.4
RUBICON	138kV	We Energies	X					4.3	4.3	6.7
RUDOLPH	69kV	Alliant Energy	X					3.3	3.3	5.4
RUDYARD 69	69kV	Cloverland	X					3.3	3.3	5.4
RUSKIN	69kV	Madison Gas and Electric	X					3.3	3.3	5.4
Russell	RSS-T31, tertiary, 12.47kV	Alliant Energy		X				1.3	1.4	2.5
RUSSELL SWITCHING S	138kV	Alliant Energy	X					4.3	4.3	6.7
RUSSELL SWITCHING S	69Kv	Alliant Energy	X					3.3	3.3	5.4
RYAN ST.	69kV	Wisconsin Public Service	X					3.3	3.3	5.4
S BROADW	69kV	Wisconsin Public Service	X					3.3	3.3	5.4
S.NAZIAN	69kV	Wisconsin Public Service	X					3.3	3.3	5.4
SADOFF	69kV	Alliant Energy	X					3.3	3.3	5.4
SAGOLA	69kV	Alliant Energy	X					3.3	3.3	5.4
SAND LAKE	138kV	Wisconsin Public Service	X					4.3	4.3	6.7
SAND LAKE	69kV	Alliant Energy	X					3.3	3.3	5.4
Sand Lake	T1, tertiary, 13.8kV	Alliant Energy	X					1.3	1.3	1.9
SANDSTON	69kV	Wisconsin Public Service	X					3.3	3.3	5.4
SARATOGA	69kV	Alliant Energy	X					3.3	3.3	5.4
SARATOGA	138kV	Alliant Energy	X					4.3	4.3	6.7
SARATOGA	115kV	Alliant Energy	X					3.8	3.8	5.9
Saratoga	T31, tertiary, 12.47kV	Alliant Energy	X					1.3	1.3	2.1
Saratoga	T32, tertiary, 12.47kV	Alliant Energy	X					1.3	1.3	1.8
Saratoga	T33, tertiary, 12.47kV	Alliant Energy	X					1.3	1.3	1.8
SAUK PRAIRIE	69kV	Alliant Energy	X					3.3	3.3	5.4
SAUK TRAILS	138kV	Alliant Energy	X					4.3	4.3	6.7



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Substation	Voltage-Equipment	LDC Territory	Hazard/Risk Category (H/RC) Required minimum FR clothing rating					Minimum Approach Distance (ft)	Minimum Approach Distance at 4 cal/cm ² (ft)	Arc Flash Boundary At 1.2cal/cm ² (ft)
			1 (4Cal/cm ²)	2 (8Cal/cm ²)	3 (25Cal/cm ²)	4 (40Cal/cm ²)	X >(40Cal/cm ²)			
SAUKVILLE	138kV	We Energies		X				4.3	5.5	8.9
SAULT	69kV	Cloverland	X					3.3	3.3	5.4
SAUNDERS CREEK	69kV	Alliant Energy	X					3.3	3.3	5.4
SAWYER	69kV	Upper Peninsula Power Company	X					3.3	3.3	5.4
SAWYER LUMBER	69kV	Upper Peninsula Power Company	X					3.3	3.3	5.4
SCANDIINAVIA	69kV	Central Wisconsin Coop	X					3.3	3.3	5.4
SCOT FORGE	69kV	Alliant Energy	X					3.3	3.3	5.4
SCOTT PAPER	69kV	Wisconsin Public Service	X					3.3	3.3	5.4
SECOND STREET	69kV	Wisconsin Public Service	X					3.3	3.3	5.4
SENECA	161kV	Dairyland Power Cooperative	X					4.8	4.8	7.4
SENEY	69kV	Upper Peninsula Power Company	X					3.3	3.3	5.4
SENEY TAP1	69kV	Cloverland	X					3.3	3.3	5.4
SENEYREA	69kV	WPPI/Aldger Delta REA	X					3.3	3.3	5.4
SHARON	69kV	Alliant Energy	X					3.3	3.3	5.4
SHAW	69kV	Rock Electric Cooperative	X					3.3	3.3	5.4
SHEBOYGAN ENERGY CE	345kV	Alliant Energy	X					11.3	11.3	17.8
SHEBOYGAN FALLS	69kV	Alliant Energy	X					3.3	3.3	5.4
SHEBOYGAN FALLS MUN	69kV	Alliant/Sheboygan Falls	X					3.3	3.3	5.4
SHEEPSKIN	69kV	Alliant Energy	X					3.3	3.3	5.4
SHERIDAN	69kV	Alliant Energy	X					3.3	3.3	5.4
SHERMAN ST	115kV	Wisconsin Public Service	X					3.8	3.8	5.9
SHERWOOD	69kV	Adams Columbia Electric Coopera	X					3.3	3.3	5.4
SHERWOOD	138kV	Wisconsin Public Service	X					4.3	4.3	6.7
SHINGLETON	69kV	Upper Peninsula Power Company	X					3.3	3.3	5.4
SHIRLAND AVENUE	69kV	Alliant Energy	X					3.3	3.3	5.4
SHOREWOOD	138kV	We Energies	X					4.3	4.3	6.7
SHOTO	69kV	Wisconsin Public Service	X					3.3	3.3	5.4
SHOTO	138kV	Wisconsin Public Service	X					4.3	4.3	6.7
Shoto	1, tertiary, 13.8kV	Wisconsin Public Service			X			1.3	1.9	3.5
SHULLSBURG	69kV	Alliant Energy	X					3.3	3.3	5.4
SIGEL	69kV	Alliant Energy	X					3.3	3.3	5.4
SIGEL	138kV	Alliant Energy	X					4.3	4.3	6.7
Sigel	T31, tertiary, 13.8kV	Alliant Energy			X			1.3	1.9	3.5
SILVER CLIFF	69kV	Wisconsin Public Service	X					3.3	3.3	5.4
SISTER B	69kV	Wisconsin Public Service	X					3.3	3.3	5.4
Skillet Creek	69kV	Alliant Energy	X					3.3	3.3	5.4
SOBIESKI	69kV	Wisconsin Public Service	X					3.3	3.3	5.4
SOMERS TAP	138kV	We Energies	X					4.3	4.3	6.7
SOUTH BEAVER DAM	69kV	Alliant Energy	X					3.3	3.3	5.4
SOUTH FOND DU LAC	69kV	Alliant Energy	X					3.3	3.3	5.4
SOUTH FOND DU LAC	345kV	Alliant Energy	X					11.3	11.3	17.8
SOUTH FOND DU LAC	138kV	Alliant Energy	X					4.3	4.3	6.7
South Fond du Lac	T21, tertiary, 13.8kV	Alliant Energy			X			1.3	1.9	3.5
South Fond du Lac	T22, tertiary, 13.8kV	Alliant Energy			X			1.3	1.8	3.4
South Fond du Lac	T31, tertiary, 13.8kV	Alliant Energy			X			1.3	2.1	3.9
South Fond du Lac	T32, tertiary, 12.47kV	Alliant Energy			X			1.3	2.3	4.1
SOUTH LAKE GENEVA	69kV	Alliant Energy	X					3.3	3.3	5.4



Arc Flash Categories ATC Facilities
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Substation	Voltage-Equipment	LDC Territory	Hazard/Risk Category (H/RC) Required minimum FR clothing rating					Minimum Approach Distance (ft)	Minimum Approach Distance at 4 cal/cm2 (ft)	Arc Flash Boundary At 1.2cal/cm ² (ft)
			1 (4Cal/cm ²)	2 (8Cal/cm ²)	3 (25Cal/cm ²)	4 (40Cal/cm ²)	X >(40Cal/cm ²)			
SOUTH MONROE	69kV	Alliant Energy	X					3.3	3.3	5.4
SOUTH SHEBOYGAN FAL	69kV	Alliant Energy	X					3.3	3.3	5.4
SOUTH SHEBOYGAN FALLS	138kV	Alliant Energy	X					4.3	4.3	6.7
South Sheboygan Falls	T31, tertiary, 12.47kV	Alliant Energy	X					1.3	1.3	2.1
SOUTHWEST DELAVAN	138kV	Alliant Energy	X					4.3	4.3	6.7
SPRECHER	138kV	Madison Gas and Electric	X					4.3	4.3	6.7
SPRING BROOK	69kV	Alliant Energy	X					3.3	3.3	5.4
SPRING GREEN	69kV	Alliant Energy	X					3.3	3.3	5.4
SPRING GREEN	138kV	Alliant Energy	X					4.3	4.3	6.7
Spring Green	T31, tertiary, 13.8kV	Alliant Energy		X				1.3	1.3	2.3
SPRING GROVE	69kV	Alliant Energy	X					3.3	3.3	5.4
SPRING LAKE	69kV	Adams Columbia Electric Coopera	X					3.3	3.3	5.4
SPRING VALLY	138kV	We Energies	X					4.3	4.3	6.7
ST LAWRENCE	138kV	We Energies	X					4.3	4.3	6.7
ST MARTINS	230kV	We Energies	X					6.7	6.7	10.2
ST MARTINS	138kV	We Energies	X					4.3	4.3	6.7
ST RITA	138kV	We Energies	X					4.3	4.3	6.7
ST.GERMAIN	115kV	Wisconsin Public Service	X					3.8	3.8	5.9
ST.JGNAC13.2	69kV	We Energies	X					3.3	3.3	5.4
STAGECOACH	69kV	Alliant Energy	X					3.3	3.3	5.4
STILES	138kV	We Energies	X					4.3	4.3	6.7
STINSON MP	161kV	Dairyland Power Cooperative	X					4.8	4.8	7.4
STONE CONTAINER	138kV	Upper Peninsula Power Company	X					4.3	4.3	6.7
STONE LAKE	161kV	Dairyland Power Cooperative	X					4.8	4.8	7.4
STONE LAKE	345kV	Xcel Energy	X					11.3	11.3	17.8
Stone Lake	T9, tertiary, 13.8kV	Xcel Energy			X			1.3	2.0	3.6
STONEMAN	161kV	Dairyland Power Cooperative	X					4.8	4.8	7.4
STONY BROOK	138kV	We Energies	X					4.3	4.3	6.7
STOUGHTON	69kV	Alliant Energy	X					3.3	3.3	5.4
STOUGHTON EAST	69kV	WPPI/Stoughton	X					3.3	3.3	5.4
STOUGHTON SOUTH MUN	69kV	WPPI/Stoughton	X					3.3	3.3	5.4
Straits	Transformer #1, tertiary, 13.8kV	Edison Sault Electric Company		X				1.3	1.3	2.4
Straits	Transformer #2, tertiary, 13.8kV	Edison Sault Electric Company		X				1.3	1.4	2.5
STRAITS	138kV	Edison Sault Electric Company	X					4.3	4.3	6.7
STRAITS	69kV	Edison Sault Electric Company	X					3.3	3.3	5.4
STRATFRD	115kV	Wisconsin Public Service	X					3.8	3.8	5.9
SUAMICO	69kV	Wisconsin Public Service	X					3.3	3.3	5.4
SUGAR CREEK	138kV	We Energies	X					4.3	4.3	6.7
SUMMIT	138kV	We Energies	X					4.3	4.3	6.7
SUMMIT LAKE	115kV	Wisconsin Public Service	X					3.8	3.8	5.9
SUN PRAIRIE	69kV	Alliant Energy	X					3.3	3.3	5.4
SUNNY VALE	115kV	Wisconsin Public Service	X					3.8	3.8	5.9
SUNRISE	138kV	Alliant Energy	X					4.3	4.3	6.7
SUNSET POINT	69kV	Wisconsin Public Service	X					3.3	3.3	5.4
SUNSET POINT	138kV	Wisconsin Public Service	X					4.3	4.3	6.7
Sunset Point	1, tertiary, 13.8kV	Wisconsin Public Service			X			1.3	1.9	3.5
Sunset Point	2, tertiary, 13.8kV	Wisconsin Public Service	X					1.3	1.3	2.1



Arc Flash Categories ATC Facilities
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Substation	Voltage-Equipment	LDC Territory	Hazard/Risk Category (H/RC) Required minimum FR clothing rating					Minimum Approach Distance (ft)	Minimum Approach Distance at 4 cal/cm ² (ft)	Arc Flash Boundary At 1.2cal/cm ² (ft)
			1 (4Cal/cm ²)	2 (8Cal/cm ²)	3 (25Cal/cm ²)	4 (40Cal/cm ²)	X >(40Cal/cm ²)			
SUSSEX	138kV	We Energies	X					4.3	4.3	6.7
SWAN SS	138kV	We Energies	X					4.3	4.3	6.7
SWAN TAP	138kV	Madison Gas and Electric	X					4.3	4.3	6.7
SYCAMORE	138kV	Madison Gas and Electric	X					4.3	4.3	6.7
SYCAMORE	69kV	Madison Gas and Electric	X					3.3	3.3	5.4
Sycamore	Bank #3, tertiary, 13.8kV	Madison Gas and Electric		X				1.3	1.7	3.0
Sycamore	Bank #4, tertiary, 13.8kV	Madison Gas and Electric			X			1.3	1.9	3.5
SYENE	69kV	Alliant Energy	X					3.3	3.3	5.4
TALENTINO	69kV	Cloverland	X					3.3	3.3	5.4
TAMARACK	138kV	We Energies	X					4.3	4.3	6.7
TECUMSEH RD	69kV	Wisconsin Public Service	X					3.3	3.3	5.4
TECUMSEH RD	138kV	Wisconsin Public Service	X					4.3	4.3	6.7
Tecumseh Rd	1, tertiary, 12.47kV	Wisconsin Public Service	X					1.3	1.3	2.2
THREE LK	115kV	Wisconsin Public Service	X					3.8	3.8	5.9
THREEMILE 69	69kV	Edison Sault Electric Company	X					3.3	3.3	5.4
THUNDER	69kV	Wisconsin Public Service	X					3.3	3.3	5.4
TICHIGAN	138kV	We Energies	X					4.3	4.3	6.7
TIGERTON	69kV	Central Wisconsin Coop	X					3.3	3.3	5.4
TILDEN	138kV	Alliant Energy	X					4.3	4.3	6.7
TIMBER LANE	69kV	Alliant Energy	X					3.3	3.3	5.4
TIMBER PRODUCTS	69kV	Upper Peninsula Power Company	X					3.3	3.3	5.4
TOIVOLA	69kV	Upper Peninsula Power Company	X					3.3	3.3	5.4
TOKAY	69kV	Madison Gas and Electric	X					3.3	3.3	5.4
TOKEN CREEK	69kV	Alliant Energy	X					3.3	3.3	5.4
TOMAH INDUSTRIAL PA	69kV	Alliant Energy	X					3.3	3.3	5.4
TOMAHAWK	115kV	Wisconsin Public Service	X					3.8	3.8	5.9
TONE 69	69kV	Edison Sault Electric Company	X					3.3	3.3	5.4
TOSA	138kV	We Energies	X					4.3	4.3	6.7
TOWER DR	138kV	Wisconsin Public Service	X					4.3	4.3	6.7
TOWER DRIVE	69kV	Wisconsin Public Service	X					3.3	3.3	5.4
TOWNLINE ROAD	138kV	Alliant Energy	X					4.3	4.3	6.7
TRAXLER	69kV	Alliant Energy	X					3.3	3.3	5.4
TRIENDA	138kV	Alliant Energy	X					4.3	4.3	6.7
TRIPP ROAD	138kV	Alliant Energy	X					4.3	4.3	6.7
TROUTLAKE 69	69kV	Cloverland	X					3.3	3.3	5.4
TROUTLAKE 69	69kV	Edison Sault Electric Company	X					3.3	3.3	5.4
TROY	138kV	Alliant Energy	X					4.3	4.3	6.7
TUNNEL CITY	69kV	Alliant Energy	X					3.3	3.3	5.4
TURTLE	69kV	Alliant Energy	X					3.3	3.3	5.4
TURTLE LK	69kV	Adams Columbia Electric Cooper	X					3.3	3.3	5.4
TWENTIETH STREET	138kV	Alliant Energy	X					4.3	4.3	6.7
TWIN LAKES	69kV	Alliant Energy	X					3.3	3.3	5.4
TWIN LAKES	138kV	We Energies	X					4.3	4.3	6.7
TWIN FALLS	69kV	We Energies	X					3.3	3.3	5.4
TWINN LAKES UPPCO	69kV	Upper Peninsula Power Company	X					3.3	3.3	5.4
TYRANENA	138kV	We Energies	X					4.3	4.3	6.7
UNION CENTER	69kV	Alliant Energy	X					3.3	3.3	5.4



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Substation	Voltage-Equipment	LDC Territory	Hazard/Risk Category (H/RC) Required minimum FR clothing rating					Minimum Approach Distance (ft)	Minimum Approach Distance at 4 cal/cm ² (ft)	Arc Flash Boundary At 1.2cal/cm ² (ft)
			1 (4Cal/cm ²)	2 (8Cal/cm ²)	3 (25Cal/cm ²)	4 (40Cal/cm ²)	X >(40Cal/cm ²)			
UNIVERSITY	138kV	We Energies	X					4.3	4.3	6.7
UNIVERST	69kV	Wisconsin Public Service	X					3.3	3.3	5.4
VALLEY	138kV	We Energies		X				4.3	5.5	8.9
VALLEY 69	69kV	Edison Sault Electric Company	X					3.3	3.3	5.4
VAN BUREN	69kV	Wisconsin Public Service	X					3.3	3.3	5.4
VELP AVE	138kV	Wisconsin Public Service	X					4.3	4.3	6.7
VENTURE	138kV	Alliant Energy	X					4.3	4.3	6.7
VENUS	115kV	Wisconsin Public Service	X					3.8	3.8	5.9
Verona	1, tertiary, 13.8kV	Alliant Energy		X				1.3	1.4	2.5
VERONA	138kV	Alliant Energy	X					4.3	4.3	6.7
VERONA	69kV	Alliant Energy	X					3.3	3.3	5.4
VESPER	69kV	Alliant Energy	X					3.3	3.3	5.4
VICTORIA	69kV	Upper Peninsula Power Company	X					3.3	3.3	5.4
Vienna	138kV	Alliant Energy	X					4.3	4.3	6.7
VIKING	138kV	Alliant Energy	X					4.3	4.3	6.7
VINLAND	69kV	Alliant Energy	X					3.3	3.3	5.4
VULCAN	138kV	Alliant Energy	X					4.3	4.3	6.7
WALKER	138kV	We Energies	X					4.3	4.3	6.7
WALNUT	69kV	Madison Gas and Electric	X					3.3	3.3	5.4
WALWORTH	69kV	Alliant Energy	X					3.3	3.3	5.4
WARDEN S	69kV	Upper Peninsula Power Company	X					3.3	3.3	5.4
WARRENS	69kV	Alliant Energy	X					3.3	3.3	5.4
WASHINGTON STREET	69kV	Alliant Energy	X					3.3	3.3	5.4
WATERSMEET	69kV	We Energies	X					3.3	3.3	5.4
WAUKESHA	138kV	We Energies	X					4.3	4.3	6.7
WAUNAKEE	69kV	Alliant Energy	X					3.3	3.3	5.4
WAUNAKEE #1	69kV	WPPI/Waunakee	X					3.3	3.3	5.4
WAUNAKEE #2	69kV	WPPI/Waunakee	X					3.3	3.3	5.4
WAUNAKEE #3	69kV	WPPI/Waunakee	X					3.3	3.3	5.4
WAUNAKEE #3	69kV	WPPI/Waunakee	X					3.3	3.3	5.4
WAUPACA	138kV	Wisconsin Public Service	X					4.3	4.3	6.7
WAUPUN	69kV	Alliant Energy	X					3.3	3.3	5.4
Waupun Muni COMH	69kV	WPPI/Waupun	X					3.3	3.3	5.4
Waupun Muni PRST	69kV	WPPI/Waupun	X					3.3	3.3	5.4
Waupun Muni PRST	69kV	WPPI/Waupun	X					3.3	3.3	5.4
Waupun Muni WANT	69kV	WPPI/Waupun	X					3.3	3.3	5.4
Waupun Muni WANT	69kV	WPPI/Waupun	X					3.3	3.3	5.4
Waupun Muni WAW	69kV	WPPI/Waupun	X					3.3	3.3	5.4
Waupun Muni WAW	69kV	WPPI/Waupun	X					3.3	3.3	5.4
Waupun Muni WSS	69kV	WPPI/Waupun	X					3.3	3.3	5.4
Waupun Municipal	69kV	WPPI/Waupun	X					3.3	3.3	5.4
WAUTOMA	69kV	Alliant Energy	X					3.3	3.3	5.4
WAUTOMA	69kV	Adams Columbia Electric Cooperat	X					3.3	3.3	5.4
WAUTOMA	138kV	Alliant Energy	X					4.3	4.3	6.7
Wautoma	T31, tertiary, 12.47kV	Alliant Energy	X					1.3	1.3	2.1
WAUZEKA	69kV	Alliant Energy	X					3.3	3.3	5.4
WEDTECH	69kV	Upper Peninsula Power Company	X					3.3	3.3	5.4



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Substation	Voltage-Equipment	LDC Territory	Hazard/Risk Category (H/RC) Required minimum FR clothing rating					Minimum Approach Distance (ft)	Minimum Approach Distance at 4 cal/cm2 (ft)	Arc Flash Boundary At 1.2cal/cm ² (ft)
			1 (4Cal/cm ²)	2 (8Cal/cm ²)	3 (25Cal/cm ²)	4 (40Cal/cm ²)	X >(40Cal/cm ²)			
WELLS STREET	69kV	Wisconsin Public Service	X					3.3	3.3	5.4
WERNER	138kV	WPPI/New London	X					4.3	4.3	6.7
WERNER WEST	345kV	Alliant Energy	X					11.3	11.3	17.8
WERNER WEST	138kV	Alliant Energy	X					4.3	4.3	6.7
Werner West	TRANSF 1, tertiary, 24.9kV	We Energies		X				1.3	1.5	2.7
WESMARK	69kV	Wisconsin Public Service	X					3.3	3.3	5.4
WEST DARIEN	138kV	Alliant Energy	X					4.3	4.3	6.7
WEST JCT TAP	230kV	We Energies	X					6.7	6.7	10.2
WEST MARINETTE	69kV	Wisconsin Public Service	X					3.3	3.3	5.4
WEST MARINETTE	138kV	Wisconsin Public Service	X					4.3	4.3	6.7
West Marinette	1, tertiary, 13.8kV	Wisconsin Public Service	X					1.3	1.3	2.1
West Marinette	2, tertiary, 13.8kV	Wisconsin Public Service	X					1.3	1.3	2.2
WEST MAUSTON	69kV	Alliant Energy	X					3.3	3.3	5.4
WEST MIDDLETON	69kV	Madison Gas and Electric	X					3.3	3.3	5.4
WEST MIDDLETON	138kV	Madison Gas and Electric	X					4.3	4.3	6.7
WEST SHAWANO	138kV	GLU/Badger Power Marketing Au	X					4.3	4.3	6.7
WEST SUB	69kV	City of Escanaba	X					3.3	3.3	5.4
WEST TOWNE	69kV	Alliant Energy	X					3.3	3.3	5.4
WEST TOWNE TAP	138kV	Madison Gas and Electric	X					4.3	4.3	6.7
WEST WISCONSIN RAPI	69kV	GLU/Wisconsin Rapids	X					3.3	3.3	5.4
WEST_JUNCTION	138kV	We Energies	X					4.3	4.3	6.7
WESTFIELD	69kV	Pioneer Power and Light	X					3.3	3.3	5.4
WESTON	345kV	Wisconsin Public Service	X					11.3	11.3	17.8
WESTON	115kV	Wisconsin Public Service		X				3.8	4.8	7.8
WESTPORT	69kV	Alliant Energy	X					3.3	3.3	5.4
WH RAPIDS	138kV	We Energies	X					4.3	4.3	6.7
WHISTLING WINGS-DPC	69kV	Dairyland Power Cooperative	X					3.3	3.3	5.4
WHITCOMB	69kV	Alliant Energy	X					3.3	3.3	5.4
WHITCOMB	115kV	Alliant Energy	X					3.8	3.8	5.9
Whitcomb	T31, tertiary, 13.09kV	Alliant Energy	X					1.3	1.3	1.9
WHITE PINE VILLAGE	69kV	Upper Peninsula Power Company	X					3.3	3.3	5.4
WHITE CLAY	138kV	We Energies	X					4.3	4.3	6.7
WHITE LAKE	138kV	We Energies	X					4.3	4.3	6.7
WHITEWTR	138kV	We Energies	X					4.3	4.3	6.7
Whiting Av	115kV	Wisconsin Public Service	X					3.8	3.8	5.9
WIEN	115kV	Wisconsin Public Service	X					3.8	3.8	5.9
WILCOX TAP	138kV	Alliant Energy	X					4.3	4.3	6.7
WILD ROSE	69kV	Alliant Energy	X					3.3	3.3	5.4
WILD ROSE	69kV	Adams Columbia Electric Cooper	X					3.3	3.3	5.4
WILDWOOD	115kV	GLU/Wisconsin Public Service/M	X					3.8	3.8	5.9
WILLIAMS BAY	138kV	Alliant Energy	X					4.3	4.3	6.7
WILLOW LAWN	69kV	Alliant Energy	X					3.3	3.3	5.4
WINGRA	69kV	Madison Gas and Electric	X					3.3	3.3	5.4
WINNEBAGO	69kV	Adams Columbia Electric Cooper	X					3.3	3.3	5.4
WINNECONNE	69kV	Alliant Energy	X					3.3	3.3	5.4
WINONA	138kV	Upper Peninsula Power Company	X					4.3	4.3	6.7
WINONA	69kV	Upper Peninsula Power Company	X					3.3	3.3	5.4



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Substation	Voltage-Equipment	LDC Territory	Hazard/Risk Category (H/RC) Required minimum FR clothing rating					Minimum Approach Distance (ft)	Minimum Approach Distance at 4 cal/cm2 (ft)	Arc Flash Boundary At 1.2cal/cm ² (ft)
			1 (4Cal/cm ²)	2 (8Cal/cm ²)	3 (25Cal/cm ²)	4 (40Cal/cm ²)	X >(40Cal/cm ²)			
Winona	T1, tertiary, 13.8kV	Upper Peninsula Power Company		X				1.3	1.5	2.8
WIOTA	69kV	Alliant Energy	X					3.3	3.3	5.4
WITTENBERG	69kV	Alliant Energy	X					3.3	3.3	5.4
WITTENBERG CWC	69kV	Central Wisconsin Coop	X					3.3	3.3	5.4
WONEWOC	69kV	Alliant Energy	X					3.3	3.3	5.4
WOODEN_SHOE	138kV	We Energies	X					4.3	4.3	6.7
WYOCENA	69kV	Alliant Energy	X					3.3	3.3	5.4
WYOMING VALLEY	138kV	Alliant Energy	X					4.3	4.3	6.7
YAHARA RIVER	138kV	Alliant Energy	X					4.3	4.3	6.7
ZENDA	69kV	Alliant Energy	X					3.8	3.8	5.9
ZOBEL	138kV	WPPI/Reedsburg	X					4.3	4.3	6.7
			1054	71	54	5	1			

