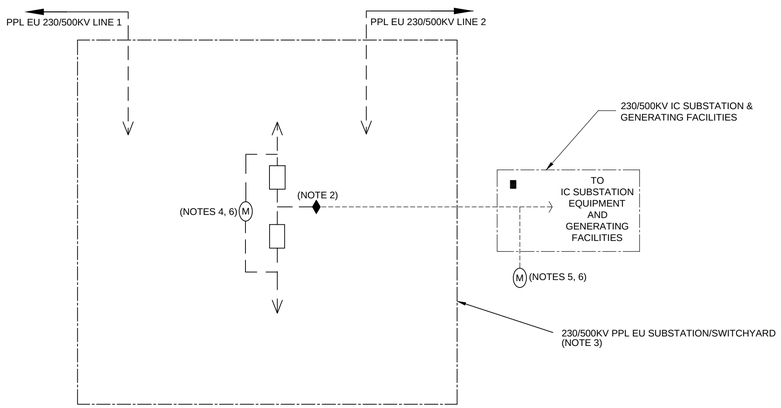


SINGLE-LINE DIAGRAM (SPLIT 230/500KV LINE INTERCONNECTION)

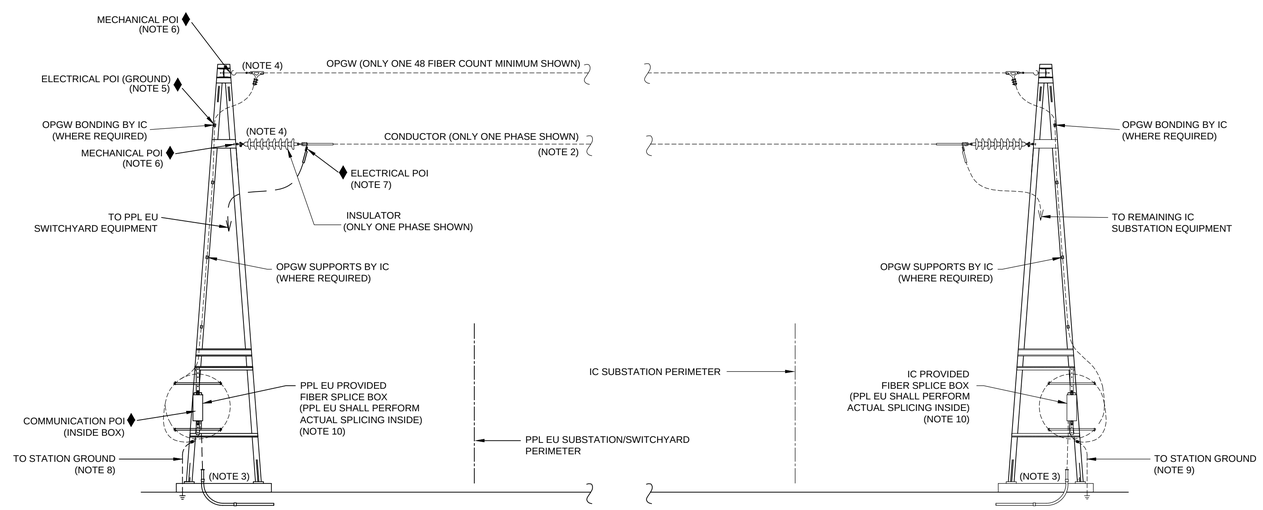
LEGEND

- <PJM QUEUE #> FACILITIES (OWNED BY IC)
- PPL EU OWNED FACILITIES
- POI
- (M) REVENUE METERING EQUIPMENT (OWNED BY PPL EU OR IC)
- CIRCUIT BREAKER (OWNED BY PPL EU)
- RELAY PROTECTION (OWNED BY IC)

FID - FAULT INTERRUPTING DEVICE
IC - INTERCONNECTION CUSTOMER
ISA - INTERCONNECTION SERVICE AGREEMENT
POI - POINT OF INTERCONNECTION

NOTES

1. THE INTENT OF THIS DIAGRAM IS TO CLEARLY DELINEATE THE OWNERSHIP BOUNDARIES BETWEEN PPL EU AND THE IC. THIS DIAGRAM IS NOT INTENDED TO ILLUSTRATE ACTUAL DESIGN DETAILS. ANY DETAILS ON THIS DIAGRAM THAT MAY ILLUSTRATE ACTUAL DESIGN DETAILS, IN ANY WAY, ARE PURELY COINCIDENTAL.
2. THE POI IS AT THE DEADEND STRUCTURE INSIDE THE PPL EU 230/500KV SUBSTATION/SWITCHYARD.
3. ONLY PERTINENT EQUIPMENT (BREAKERS, METERING, ETC.) IS SHOWN INSIDE THE PPL EU 230/500KV SUBSTATION/SWITCHYARD. ACTUAL PPL EU 230/500KV SUBSTATION/SWITCHYARD CONFIGURATION WILL VARY.
4. IF PPL EU OWNS THE REVENUE METERING EQUIPMENT, THEN THIS EQUIPMENT SHALL BE INSTALLED IN THE PPL EU 230/500KV SUBSTATION/SWITCHYARD.
5. IF THE IC OWNS THE REVENUE METERING EQUIPMENT, THEN THIS EQUIPMENT SHALL BE INSTALLED IN THE IC SUBSTATION ON THE HIGH SIDE OF THE IC TRANSFORMER(S) BEFORE THE HIGH SIDE FID(S).
6. PJM PROVIDES THE IC THE OPTION TO OWN THE REVENUE METERING EQUIPMENT. THE PJM ISA SHALL DICTATE OWNERSHIP (PPL EU OR IC) OF THE REVENUE METERING EQUIPMENT.
7. FOR A BREAKDOWN OF THE IC AND PPL EU RESPONSIBILITIES RELATED TO REVENUE METERING EQUIPMENT AND RELAY PROTECTION, REFER TO PPL EU DOCUMENT EU00530561.



INTERCONNECTION POINT DIAGRAM

LEGEND

- <PJM QUEUE #> FACILITIES (OWNED BY IC)
- PPL OWNED FACILITIES
- POI

IC - INTERCONNECTION CUSTOMER
OPGW - OPTICAL GROUND WIRE (FIBER)
POI - POINT OF INTERCONNECTION

NOTES

1. THE INTENT OF THIS DIAGRAM IS TO CLEARLY DELINEATE THE OWNERSHIP BOUNDARIES BETWEEN PPL EU AND THE IC. THIS DIAGRAM IS NOT INTENDED TO ILLUSTRATE ACTUAL DESIGN DETAILS. ANY DETAILS ON THIS DIAGRAM THAT MAY ILLUSTRATE ACTUAL DESIGN DETAILS, IN ANY WAY, ARE PURELY COINCIDENTAL.
2. ONLY ONE PHASE CONDUCTOR IS SHOWN FOR CLARITY. MULTIPLE BUNDLED CONDUCTORS (DOUBLE, TRIPLE, ETC.) PER PHASE MAY ALSO EXIST, BUT ARE NOT SHOWN ON THIS DIAGRAM.
3. THE DEADEND STRUCTURES ILLUSTRATED ARE REPRESENTATIVE OF TYPICAL DEADEND STRUCTURES. ACTUAL DEADEND STRUCTURE TYPES MAY BE DIFFERENT.
4. SEE PPL EU STANDARD ELECTRICAL ASSEMBLIES FOR MORE INFORMATION. THE NUMBER OF INSULATOR SEGMENTS WILL BE DEPENDENT ON THE LINE VOLTAGE AND BASIC INSULATION LEVEL (BIL) RATINGS.
5. THE IC SHALL FASTEN OPGW AND SUPPORT EXCESS GROUND WIRE DOWN THE PPL EU DEADEND STRUCTURE AND COIL NEAR PPL EU PROVIDED FIBER SPLICE BOX.
6. THE IC SHALL PROVIDE AND INSTALL ALL LINE MOUNTING HARDWARE TO CONNECT TO THE PPL EU DEADEND STRUCTURE.
7. PPL EU SHALL PROVIDE AND INSTALL ALL JUMPER LOOP HARDWARE TO CONNECT TO THE IC PHASE CONDUCTOR NEMA PADS.
8. PPL EU SHALL GROUND THE OPGW IN ACCORDANCE WITH PPL EU STANDARD SPECIFICATIONS.
9. THE IC SHALL GROUND THE OPGW AND DEADEND STRUCTURE IN ACCORDANCE WITH PPL EU STANDARD SPECIFICATIONS.
10. PPL EU SHALL PERFORM END-TO-END FIBER TESTING.

DEVELOPED FROM STANDARD DRAWING EU00535116, SH. 1, REV. 0

PPL ELECTRIC UTILITIES

ACCT.- 10023534	STANDARD - SUBSTATION & SWITCHYARD - IPP
ECN #- 8998	230/500KV IPP POINT OF INTERCONNECTION (POI)
SCALE- NONE	TYPICAL DIAGRAMS
BY- RRC/BAS	PJM QUEUE XXX-YYYZ
REV'D- RNJ	

REFERENCE TITLE	NUMBER	REFERENCE TITLE	NUMBER	NO.	DATE	ACCT.	ECN/FCN	REVISION	BY	REV'D	APPR.
				1	1/25/18	10023531	ECN-9379	AT THE DIRECTION OF PJM INTERCONNECTION THE PJM DEFINITION WAS REMOVED FROM THE SINGLE LINE DIAGRAM LEGEND	JTC		EDL

CAD ID	FORMAT	DRAWING NO.	SHEET NO.	REVISION
AC	D	EU00535116	1	1

APPROVED EDWARD D. LEGENSKI — DATE — PPL ELECTRIC UTILITIES

PLAN & PROFILE PRIMARY	PLAN & PROFILE NO.	PRIMARY LOC CODE	LOC CODE	LOC CODE	LOC CODE	SORTS	SHARE
		S060				E	N

THIS FORMAT CONTAINS REQUIRED METADATA ATTRIBUTES

PPL ELECTRIC UTILITIES FORM 4877 (02/16)