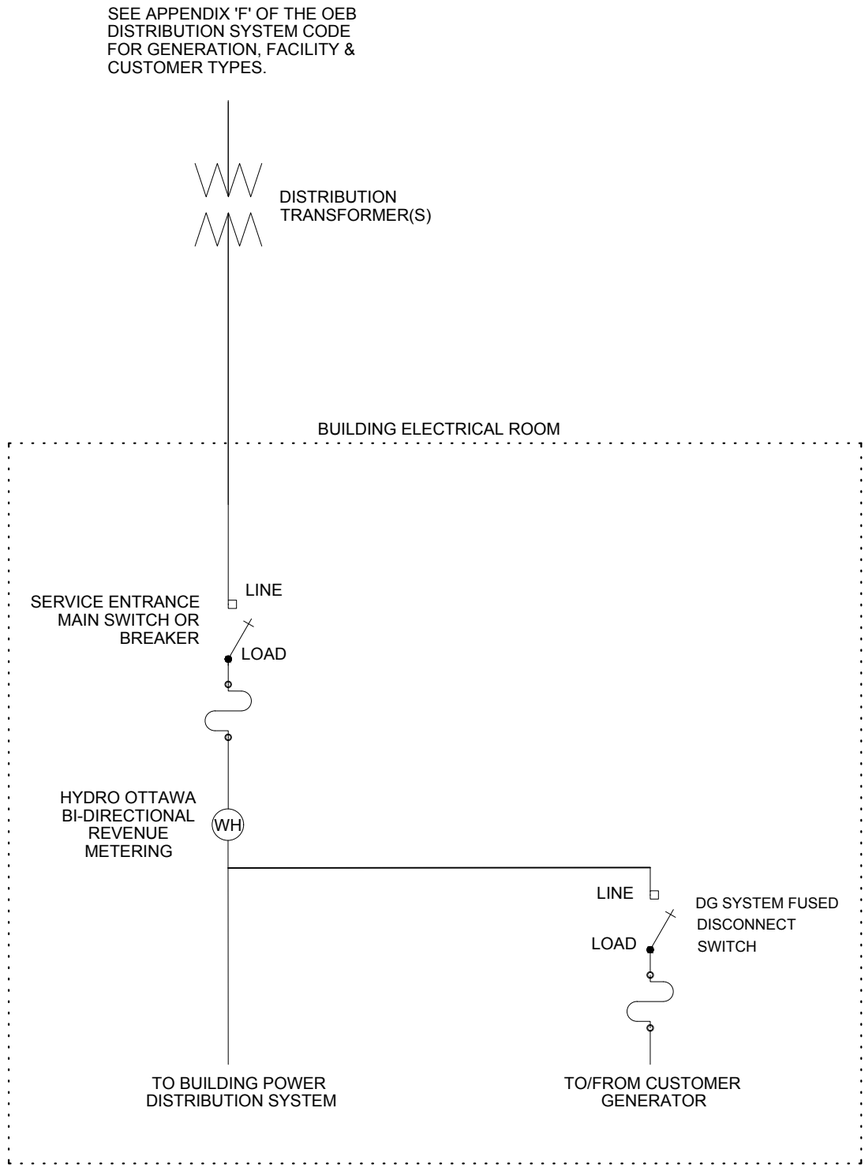

NOTES:

A. THE PROPOSED INSTALLATION SHALL COMPLY WITH HYDRO OTTAWA ENGINEERING STANDARDS AND THE ONTARIO ELECTRICAL SAFETY CODE. EXISTING SERVICES SHALL MEET CURRENT HYDRO OTTAWA STANDARDS.

B. SUBMIT THE PROPOSED DESIGN TO HYDRO OTTAWA FOR COMMENT PRIOR TO ESA PLAN APPROVAL SUBMISSION. THE PROPOSED DESIGN SUBMISSION SHALL INCLUDE:

   i. ELECTRICAL SINGLE LINE DIAGRAM TO SHOW PROPOSED CHANGES PLUS COMMON AND AFFECTED EXISTING BUILDING DISTRIBUTION SYSTEM.
   ii. ELECTRICAL ROOM FLOOR PLAN LAYOUT.
   iii. SCALED ELEVATED DETAIL OF THE ELECTRICAL ROOM

C. HYDRO OTTAWA SHALL NOT ACCEPT DIRECT OR INDIRECT RESPONSIBILITY FOR CHANGES TO THE EXISTING UTILITY OWNED EQUIPMENT AND/OR BUILDING DISTRIBUTION EQUIPMENT DUE TO THE PROPOSED GENERATION.

D. FOR THREE-PHASE GENERATORS, PHASE CURRENTS SHALL BE BALANCED WITHIN 15% OF EACH OTHER.

E. DG INSTALLATIONS ON THREE-PHASE SUPPLY POINTS SHALL BE THREE-PHASE GENERATORS . IF ANY PHASE(S) ON THE DISTRIBUTION GRID OR FROM THE DG SOURCE IS OUT OF ELECTRICAL TOLERANCE SPECIFICATION, ALL THREE DG PHASES SHALL BE ISOLATED FROM GENERATING INTO THE DISTRIBUTION GRID.

F. GENERATORS TO MEET HYDRO OTTAWA'S POWER QUALITY SPECIFICATION, ECG0008, INCLUDING THE REQUIREMENTS OF CSA C22.2 No. 257.

G. METERING EQUIPMENT WILL BE SIZED TO THE FUSED DISCONNECT SWITCH RATING AND, NOT THE FUSE SIZE.

H. HYDRO OTTAWA LIMITS THE NUMBER OF GANGED SINGLE PHASE METER BASE SOCKETS TO A MAX OF 6. GREATER THAN 6 METERS THAT ARE TO BE GANGED, REQUIRE A METERING CENTER WITH A DISTINCT MAIN SWITCH/BREAKER AS PER HYDRO OTTAWA'S CONDITIONS OF SERVICE, ECS0012, AND HYDRO OTTAWA DOCUMENT GCS0008.

I. ENGINEERING SINGLE LINE DRAWING SHALL BE SIGNED, DATED, AND SEALED BY A PROFESSIONAL ENGINEER FOR:

   i. MULTI-RESIDENTIAL (2+ UNITS) PREMISES.
   ii. ALL COMMERCIAL PREMISES.
   iii. SINGLE RESIDENTIAL PREMISE WITH > 10kW DG.

J. MINIMUM OF 1500 [5'] OF CLEARANCE REQUIRED IN FRONT OF ALL METERING EQUIPMENT.

K. THE PARALLEL CONNECTION SHALL NOT BE TERMINATED IN THE REVENUE METERING CELL FOR THE CUSTOMER OWNED EQUIPMENT, IF SWITCHGEAR IS USED.

L. THE DG SYSTEM FUSED DISCONNECT SHALL HAVE FACTORY INSTALLED OVER-CURRENT PROTECTION AS PER HYDRO OTTAWA SPECIFICATION GCS0008.

REVISIONS	PREP	CHKD	APPD
REV: DATE: CHANGE:			
REV: DATE: CHANGE:			
REV: DATE: CHANGE:			

HydroOttawa
WWW.HYDROOTTAWA.COM

PREP: E. VEH
CHKD: R. HARRINGTON
APPD: E. DONKERSTEEG P.Eng
DATE: 2018-06-11
SCALE: N.T.S. @ ANSI B

TITLE: ENGINEERING SPECIFICATION
SINGLE LINE DIAGRAM GENERAL SECONDARY SERVICE WITH LOAD DISPLACEMENT ERF > 500 kW AND ≤10 MW CONSTRUCTION DETAIL

NO: GDS0018

1 OF 1

REV: 0

LAST SAVED: 2018-06-11 2:09 PM

G:\4.2.3 TECH STD & MAT\01 STDS\01 HOL\G-GENERAL\D-DESIGN\GDS0018 R0 SINGLE LINE DIAGRAM GENERAL SECONDARY SERVICE WITH LOAD DISPLACEMENT ERF 500KW AND 10 MW.DWG