AVAILABLE SHORT-CIRCUIT CURRENT FORM

CITY OF LOVES PARK **BUILDING DEPARTMENT** (815) 654-5003 Fax- (815) 654-5004

This form must be submitted to the Building Department prior to inspection.

Date:		Permit Number			
Electrical Contracto	r		Ph	one number	
Street Address					
City	State		Zip		
Location of work in	n City of Loves Park:				
Name of Occupant	or Owner				
Street Address					
installed is in compl circuit currents and 240-11, 250-2(d), 29 Loves Park Building	g information is requeste iance with the National E the interrupting ratings. 50-90, and 250-96. This Department for approval	electrical Code See sections form is to be prior to any r	e 1999 as it rela 110-3(b), 110- completed and requests for insp	ates to available short 9, 110-10, 230-205(b) returned to the City of pections.	
	E PARTY SHALL SUPPI	,	-		
Secondary Voltage	Single	Phase or	Three Phase	(circle one)	
Available short circu	it current on secondary s	ide of transfo	mer	amps	
Contact person at C	ommonwealth Edison				
Length of service Co	onductors from transforme	er to meter pe	edestal or riser_	**************************************	
Size of service cond	uctors	Coppe	r or Aluminu	ım (circle one)	
Service conductors	paralleled? yes or	no (cir	cle one)		
Number of Conduit(s) Type of Race	way		·e	
Amperes Interrupting disconnect	g Rating (A.I.R.) rating of	the overcurre	ent device used	as the main service	
(NOTE! If the	A.I.R. of the overcurre	ent device is	s <u>greater</u> than	the fault current	

at the transformer secondary, no further calculation is necessary.)

Formula: Short Circuit Calculation—Phase to Phase

Short-Circuit Current at transformer secondary C	actors F M	Short Circuit Amps at Fault	
C Factor = 1000 Z/Kft			
F Factor = Phase x L x I PC x C x E		<u>-</u>	
M Factor = 1 1+F			
Short Circuit Amps at Fault = 1 x M		<u> </u>	
 C = C Factor as calculated above E = Highest line-to-line voltage available at transformer secondary F = F Factor I = Available short-circuit current amps at transformer secondary L = Conductor length in feet 	 M = M Factor PC = Number of parallel conductors per phase Phase = 2.00 for single phase 1.73 for three-phase Z/Kft = Conductor impedance per thousand foot from NEC 1999 Chapter 9, Table 9 		

	I continue of Assistable	Short Circuit Current	Overcurrent Device		
	Location of Available Short-Circuit Current		Ampere Rating	Interrupting Rating	Apparent RMS Let-Through Current
1	At transformer secondary terminals (infinite primary) —per Com Ed		N/A	N/A	N/A
2	On line side of main service equipment			d	
3	Let-through current on load side of main over-current device				

Please submit additional panel and sub-panel calculations on a separate sheet.

Signed	
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