

**FAULT CURRENT CALCULATION  
CITY OF IRVING**



**Electrical Contractor:** \_\_\_\_\_

**Street Address:** \_\_\_\_\_ **City:** \_\_\_\_\_ **State:** \_\_\_\_\_ **Zip:** \_\_\_\_\_

The following information is requested to determine the electrical equipment installation at: **(Electrical Permit # & Project Address Below)**

**Electrical Permit #**

**Project Address:** \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Is in compliance with the National Electrical Code® as it relates to available short-circuit currents and interrupting ratings. **See Sections 110.9, 110.10, 110.22, 110.24, 240.2 & 240.86**

**Note:**

**This form is to be completed and returned to the Building Inspection Department for approval at plan review before a permit will be issued.**

**\*\*A COPY OF THIS FORM MUST BE ONSITE AT THE TIME OF SERVICE INSPECTION\*\***

THE FOLLOWING INFORMATION IS TO BE SUPPLIED BY THE ELECTRICAL CONTRACTOR OR OTHER RESPONSIBLE PARTY:

TRANSFORMER KVA: \_\_\_\_\_ IMPEDANCE: \_\_\_\_\_ % SECONDARY VOLTAGE: \_\_\_\_\_

Transformer Available Fault Current: \_\_\_\_\_

FULLY RATED SYSTEM

SERIES RATED SYSTEM

- **Series rated systems require component protection data sheets (fuse / breaker or breaker / breaker combinations) Series rated systems require field markings by the installer at the service equipment and each downstream panelboard at the time of inspection for verification.**

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**FROM TRANSFORMER TO AUXILIARY GUTTER / TAP CAN / METER**

TYPE OF CONDUCTORS     COPPER             ALUMINUM    SIZE OF CONDUCTORS: \_\_\_\_\_  
LENGTH OF CONDUCTORS FROM TRANSFORMER TO AUXILIARY GUTTER: \_\_\_\_\_

TYPE OF CONDUIT             NONMAGETIC     STEEL  
NUMBER OF CONDUCTORS PER PHASE: \_\_\_\_\_ Available Fault Current \_\_\_\_\_

**FROM AUXILIARY GUTTER / TAP CAN / METER TO THE SERVICE  
DISCONNECT**

TYPE OF CONDUCTORS     COPPER             ALUMINUM    SIZE OF CONDUCTORS: \_\_\_\_\_  
LENGTH OF CONDUCTORS FROM TRANSFORMER/ TAP CAN TO AUXILIARY GUTTER: \_\_\_\_\_ ft

TYPE OF CONDUIT  METALLIC  NON-METALLIC   
NUMBER OF CONDUCTORS PER PHASE: \_\_\_\_\_ Available Fault Current \_\_\_\_\_

**FROM THE SERVICE DISCONNECT TO THE PANEL**

TYPE OF CONDUCTORS     COPPER             ALUMINUM    SIZE OF CONDUCTORS: \_\_\_\_\_  
LENGTH OF CONDUCTORS FROM THE DISCONNECT TO THE PANEL: \_\_\_\_\_ ft

TYPE OF CONDUIT  METALLIC  NON-METALLIC   
NUMBER OF CONDUCTORS PER PHASE: \_\_\_\_\_ Available Fault Current \_\_\_\_\_

**FROM PANEL #1                      TO PANEL #**

TYPE OF CONDUCTORS     COPPER             ALUMINUM    SIZE OF CONDUCTORS: \_\_\_\_\_  
LENGTH OF CONDUCTORS FROM THE 1<sup>ST</sup> PANEL TO THE 2<sup>ND</sup> PANEL: \_\_\_\_\_

TYPE OF CONDUIT  METALLIC  NON-METALLIC   
NUMBER OF CONDUCTORS PER PHASE: \_\_\_\_\_ Available Fault Current \_\_\_\_\_

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**FROM PANEL # \_\_\_\_\_ TO PANEL # \_\_\_\_\_**

TYPE OF CONDUCTORS  COPPER  ALUMINUM SIZE OF CONDUCTORS: \_\_\_\_\_

LENGTH OF CONDUCTORS FROM THE 1<sup>ST</sup> PANEL TO THE 2<sup>ND</sup> PANEL: \_\_\_\_\_ft

TYPE OF CONDUIT  METALLIC  NON-METALLIC

NUMBER OF CONDUCTORS PER PHASE: \_\_\_\_\_ Available Fault Current \_\_\_\_\_

**Data Sheet For Fully Rated or Series Rated Systems**

Item	Location of Short Circuit Current	Short-Circuit Current ( Calculation )	Overcurrent Device Ampere Rating ( 15-4,000 Amps )	Overcurrent Device Interrupting Rating (10,000-100,000 amps )
1	At Transformer Secondary Terminals (Infinite Primary)		NA	NA
	At the Tap Can or Wireway		NA	NA
2	On Line side of Main Service Equipment			
3	At Panel _____			
4	At Panel _____			
5	At Panel _____			
6	At Panel _____			
7	At Panel _____			

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SERVICE DISCONNECT TYPE \_\_\_\_\_  FUSE     BREAKER

FUSE TYPE OR BREAKER TYPE \_\_\_\_\_

FUSE SIZE OR BREAKER SIZE \_\_\_\_\_

AIC RATING OF FUSE OR BREAKER \_\_\_\_\_

PANEL TYPE \_\_\_\_\_

PANELBOARD(S)     MAIN BREAKER     MLO

MAIN BREAKER SIZE \_\_\_\_\_

MAIN BREAKER AIC RATING \_\_\_\_\_

BRANCH BREAKER AIC RATING \_\_\_\_\_

**The undersigned is responsible for all values given and must be the Master Electrician for the Electrical Contracting Company or the Electrical Engineer of record for the project.**

Print Name: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_ TDLR License # \_\_\_\_\_

Contact Phone Number \_\_\_\_\_

Contact Email \_\_\_\_\_

The information provided in this form is for meeting the NEC 110.24 Available Fault Current

**Please Email a copy of this form to the Electrical Division:**

Chief Electrical Inspector -James Hathorn- [jhathorn@cityofirving.org](mailto:jhathorn@cityofirving.org)

Marino Enriquez- [menriquez@cityofirving.org](mailto:menriquez@cityofirving.org)

Darnell Tucker- [dtucker@cityofirving.org](mailto:dtucker@cityofirving.org)

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**Additional Space As Needed For More Panel Locations-Copy And Paste**

**FROM PANEL # \_\_\_\_\_ TO PANEL # \_\_\_\_\_**

TYPE OF CONDUCTORS     COPPER             ALUMINUM    SIZE OF CONDUCTORS: \_\_\_\_\_  
 LENGTH OF CONDUCTORS FROM THE 1<sup>ST</sup> PANEL TO THE 2<sup>ND</sup> PANEL: \_\_\_\_\_ft  
 TYPE OF CONDUIT         METALLIC         NON-METALLIC   
 NUMBER OF CONDUCTORS PER PHASE: \_\_\_\_\_    Available Fault Current \_\_\_\_\_

**FROM PANEL # \_\_\_\_\_ TO PANEL # \_\_\_\_\_**

TYPE OF CONDUCTORS     COPPER             ALUMINUM    SIZE OF CONDUCTORS: \_\_\_\_\_  
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 NUMBER OF CONDUCTORS PER PHASE: \_\_\_\_\_    Available Fault Current \_\_\_\_\_

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Data Sheet For Fully Rated or Series Rated Systems**

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	At the Tap Can or Wireway		NA	NA
2	On Line side of Main Service Equipment			
8	At Panel _____			
9	At Panel _____			
10	At Panel _____			
11	At Panel _____			
12	At Panel _____			

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