## ELECTRICAL INSTALLATION OF FIRE PUMP SYSTEM (U.S.A.)

**NORMAL POWER SUPPLY**
- SEPARATE SERVICE ENTRANCE FOR FIRE PUMP (NFPA 20-03 Chapter 9)
- SEPARATE SERVICE ENTRANCE FOR BUILDING

**EMERGENCY POWER**
- GENERATOR
- TRANSFER SWITCH FOR EMERGENCY POWER GENERATOR (NFPA 70-99 Article 695-3 B)

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**IF CIRCUIT BREAKER OR FUSIBLE DISCONNECT SWITCH IS REQUIRED:**
- OVERLOAD DEVICES SELECTED TO CARRY LOCKED ROTOR CURRENT CONTINUOUSLY
- GROUND FAULT PROTECTION IS NOT PERMITTED
- LOCKABLE IN "ON" POSITION LABELLED "FIRE PUMP DISCONNECT MEANS". SEE NFPA 20-03 Chapter 9 Article 9.3.2.3.2 A TO E AND NFPA 70-99 Article 695-4
- NOTE: LISTED FIRE PUMP CONTROLLERS ARE SUITABLE FOR USE AS SERVICE EQUIPMENT.

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**POWER WIRING BETWEEN ELECTRICAL ROOM AND PUMP ROOM**
- AS WELL AS BETWEEN GENERATOR AND PUMP ROOM
- CONDUCTORS SIZED AT 125% OF FULL LOAD CURRENT
- ROUTED OUTSIDE OF BUILDING OR ENCLOSED BY 2" OF CONCRETE OR HAVE 1 HOUR FIRE RATING
- SEE NFPA 20-03 9.2.5.4 AND 9.3 AND NFPA 70-99 ARTICLE 695-6 A, B, C

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**U.L. (F.M.) LISTED BUILT TO UL STANDARD 1008 AND NFPA 20-03 STANDARD CHAPTER 10.8.2.1**
- TRANSFER OF POWER SHALL TAKE PLACE WITHIN THE PUMP ROOM
- TRANSFER SWITCH SHALL BE SPECIFICALLY LISTED FOR FIRE PUMP SERVICE
- ONE TRANSFER SWITCH SHALL BE DEDICATED TO EACH FIRE PUMP
- SEE: NFPA 20-03 CHAPTER 9.6.4, 10-8.3.1 AND 10-8.2.3

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**FIRE PUMP**
- MOTOR(S) SHALL BE LISTED FOR FIRE PUMP SERVICE AND COMPLY WITH NEMA STANDARD M6-1 NEMA DESIGN B NFPA 20-03 CHAPTER 9.5.1.1 & 9.5.1.2

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This information bulletin is intended for quick reference only. For detailed information, see NFPA 20 standard and NFPA 70 NEC.