SUMMARY OF ALTERNATE EMERGENCY POWER SOURCE REQUIREMENTS
for
ELECTRIC MOTOR DRIVE FIRE PUMPS

| TYPE OF ALTERNATE POWER SOURCE<br>(X = acceptable type of source)<br>(NR = Not Required - See conditions below) | GENERATOR | TWO CONNECTIONS TO DOWNTOWN GRID | TWO TAPS TO SEPARATE UTILITY GRIDS |
|---|---|---|---|
| NEW HIGH-RISE | X | | |
| EXISTING HIGH-RISE<br>with adequate water pressure and volume to supply<br>2 or more sprinkler heads without pump* | NR | NR | NR |
| EXISTING HIGH-RISE<br>without adequate water to supply at least 2 heads<br>without pump* | X | X | X |
| HIGH PILED STORAGE WAREHOUSE<br>New and Retro-fitted | NR | NR | NR |
| ALL OTHER BUILDINGS (new & existing)<br>with adequate water pressure and volume to supply<br>2 or more sprinkler heads without pump* | NR | NR | NR |
| ALL OTHER BUILDINGS (new & existing)<br>without adequate water supply at least 2 heads<br>without pump* | X | X | X |

CONDITIONS FOR ALTERNATE POWER TO BE DEEMED "NOT REQUIRED" (NR)

1. The commercial power supply serving the specific property is not at risk of failure beyond what is normal or safe as determined jointly by the Fire Bureau and Electrical Section. (Documentation shall be provided if the commercial power supply is designated to be "at risk")

2. The fire suppression system is served by pressure water mains capable of supplying the required pressure to the two (2) most remote sprinkler heads without fire pump assistance (excluding fire hose requirements)

3. Fire apparatus can provide adequate pressure (This provision is not met if in the judgement of the Fire **Marshal fire apparatus response may be** delayed by factors as long response distance, limited access - across rail tracks which could be blocked - or a history **of delayed responses.**

4. Sprinkler system water flow is monitored by an approved central station.