

# BIG LAKE SUPPLY

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## HOW THE NEC APPLIES TO SERVICE ENTRANCE RATED TRANSFER SWITCHES

The National Electrical Code defines disconnect, and overcurrent requirements of a utility power connection under article 230.

Applicable sections are:

***230.70 Means shall be provided to disconnect all conductors in a building or structure from the service entrance conductors.***

***230.70 (1) The service disconnecting means shall be installed at a readily accessible location either outside of a building or structure or inside nearest the point of entrance of the service conductors.***

***230.72 EQUIPMENT CONNECTED TO THE SUPPLY SIDE OF SERVICE DISCONNECT  
Only the following equipment shall be permitted to be connected to the supply side of the service disconnecting means.***

***230.72 (5) Taps used only to supply load management devices, circuits for standby power systems, fire pump equipment, fire and sprinkler alarms, if provided with service equipment and installed in accordance with requirements for service entrance conductors.***

***230.90 Each ungrounded conductor shall have overcurrent protection.***

***230.91 The service overcurrent device shall be an integral part of the service disconnecting means or shall be located immediately adjacent hereto.***

Article 230 becomes applicable to transfer switches when the planned installation places them on the utility side of the existing Service Entrance. In many areas it is a common practice for the Service Entrance to be a circuit breaker in the main distribution panel. This requires either installing a new service entrance, or to install a Service Entrance Rated transfer switch.

A Service Entrance Rated transfer switch is just a normal transfer switch, with a circuit breaker added in series with the utility power input, and a bonding jumper between neutral and ground. All ASCO Service Entrance Rated transfer switches are UL-891 and UL-1008 listed, and meet all national and local codes.