1 General

1.1 In general the emergency lighting power at Purdue falls into three categories: generator, self-contained battery, central inverter with battery backup (also referred to as “EMAC), and decentralized inverters. Purdue prefers to use decentralized inverters or self-contained battery units. Central inverter systems are not acceptable. For additional information refer to section 26 3300 Alternate Power Sources.

1.2 For new buildings, power emergency lighting from generator power when available. Verify power is coming from the Emergency system, and not legally required or optional equipment systems.

1.2.1 When generator power is not available utilize decentralized inverters (preferred) and individual battery units as necessary.

1.2.2 Where used, self-contained battery units shall be similar to the Bodine B50ST for fluorescent or the Bodine BSL emergency driver series for linear LED fixtures, appropriately matched with the LED driver and LED array.

1.2.3 For LED fixtures it is preferred that the emergency LED driver shall be factory installed and matched to the LED load as per the manufacturer’s instructions.

1.2.4 Specify the ST (self-test/self-diagnostic) feature whenever possible for all battery backed-up emergency lighting systems.

1.3 The use of wall mounted battery packs is not acceptable, except with permission of Purdue Engineering.

1.4 Not all emergency fixtures are “night-lights” (i.e. in lecture halls, labs, large office areas, etc.). In these instances the emergency lighting shall be controlled via a “generator transfer device”, similar to Bodine #GTD20A.

1.5 When an emergency ballast or driver is installed in a fixture, the test switch and indicator lamp shall be mounted in a location that is readily visible and accessible from an 8’ ladder, without having to disassemble the fixture in any way.

1.5.1 Flush mounted fixture – a flush mounted box located adjacent to the fixture is to be used.

1.5.2 Surface or Pendant mounted fixture – mounted on fixture housing or in surface mounted box.

2 Exterior fixtures above doors, lighting the means of egress

2.1 LED fixtures are preferred. When remote emergency battery packs for exterior fixtures are located indoors, verify the acceptable lead lengths with the manufacturer.
2.2 Means of emergency power when the building does not have a generator

<table>
<thead>
<tr>
<th>Preferred</th>
<th>Decentralized battery inverter units.</th>
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</thead>
<tbody>
<tr>
<td>Acceptable</td>
<td>Self-contained battery pack</td>
</tr>
<tr>
<td>By Approval</td>
<td>Central inverter system to serve only the exterior emergency fixtures or inaccessible interior fixtures</td>
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