PROPOSED CT LOCATION FOR AUTO LOAD SHEDDING LOAD BANK - DUAL CONTROL OPERATION

SPP 7131

Example "A"

- Generator 1: Primary 90kW
- Generator 2: Standby 155kW
- Generator 3: Standby 155kW

- Shore Power
- Transformer
- Distribution 208/120V AC

- BUSBAR CONNECTION TO SWITCHBOARDS
- PRESUMED TO BE DOWNSTREAM OF GEN. 1, 2 & 3

- CT-1 Value = G2 + G3

Example "B"

- Generator 1: Primary 90kW
- Generator 2: Standby 155kW

- Shore Power
- Transformer
- Distribution 208/120V AC

- BUSBAR CONNECTION TO SWITCHBOARDS
- PRESUMED TO BE DOWNSTREAM OF GEN. 1 & 2

- CT-1 Value = G1 + G2

DUAL PROGRAM REQUIRED FOR TWO GENSET TYPE OPERATION.
PROGRAM 1 - Genset 90kW
PROGRAM 2 - Genset 155kW or 2 x 155kW
CT-1 VALUE = G2 + G3

SIDE THRUSTERS
LOAD BANK - ENABLE/DISABLE SIGNAL

EXAMPLE "A"

EXAMPLE "B"
Example "C"

- **Generator 1**
  - Primary
  - 155kW
  - System of Operation: G1 = On, G2 = Off, or G1 & G2 On

- **Generator 2**
  - Standby
  - 155kW

- **Shore Power**
- **Synchroniser**
- **CT-1**
- **Non-Essential Consumers**
- **CT-1 Value** = G1 + G2
- **Distribution 208/120V AC Engine Room**
- **Transformer**
- **Side Thrusters**

- **Busbar Connection to Switchboards Presumed to be Downstream of Gen.1 & 2 as Shown**

Example "D"

- **Generator 1**
  - 90kW
  - System of Operation: G1 = On, G2 = Off, or G1 & G2 On

- **Generator 2**
  - 155kW

- **Shore Power**
- **CT-1**
- **Non-Essential Consumers**
- **CT-1 Value** = G1
- **CT-1 Value** = G2
- **Distribution 208/120V AC Engine Room**
- **Transformer**
- **Side Thrusters**
- **Loadbank Enable/Disable Signal**
- **CT1**

**One Program Required for Two x Same Size Genset Type Operation.**
- Program 1 - Genset 155kW
- CT-1 Value = G1 + G2

**Dual Program Required for Two Genset Split Bus Operation.**
- Program 1 - Genset 90kW
- Program 2 - Genset 155 kW
- CT-1 Value = G1
- CT-1 Value = G2

**SEPHCO SMARTLOAD BANKS**
**LOAD BANK FAULT MODE**
**ENTER**

**MODEL LSM800D**
**% kW**

**Example "C"**
**Example "D"**
**Synchroiser System of Operation**
G1 = On
G2 = Off
or G1 & G2 On
PROPOSED CT LOCATION
FOR AUTO LOAD SHEDDING LOAD BANK - DUAL CONTROL OPERATION

DUAL PROGRAM REQUIRED FOR TWO GENSET TYPE OPERATION.
PROGRAM 1 - Genset 125kW
PROGRAM 2 - Genset 250 kW

CT VALUES = G1 + G2

TO LOAD BANK: ENABLE/DISABLE SIGNAL

TRANSFORMER

CT'S MUST BE ON THE SAME PHASE

GENERATOR SEQUENCE CAN BE REVERSED

SHORE POWER

DISTRIBUTION
208/120V AC ENGINE ROOM

SIDE THRUSTERS

LOAD BANK - ENABLE/DISABLE SIGNAL

LOAD BANK

SHEDDING CONTROLLER

MODE SMARTLOAD BANK

EXAMPLE "E"

GENERATOR 1
PRIMARY 125kW

GENERATOR 2
STANDBY 125kW

CT1

CT2

G1

G2

Example "E"