AVAILABLE FAULT CURRENT AT THE SERVICE NOT PROVIDED — BY OTHERS: THE UTILITY'S LETTER IS OWED

EMERGENCY AND LEGALLY REQUIRED STANDBY LOADS, IBC 2021 2702.2

LOAD	DESCRIPTION	CLASS	SOURCE	KW	RECORD
EGR-LTG	MEANS OF EGRESS ILLUMINATION	EMERGENCY (NEC 700)	UNIT EQUIPMENT, OWN BATTERY	OFF GEN-1	MEP-EMG-EGR-LTG
FACP	FIRE ALARM CONTROL PANEL, ADDRESSABLE (NOTIFIER NFS2-3030)	LEGALLY REQUIRED STANDBY (NEC 701)	FACP BATTERY (MEP-FA-BAT)	OFF GEN-1	MEP-EMG-FACP
ELEV-1	ELEVATOR, KONE ECOSPACE (PASSENGER)	NORMAL POWER	NORMAL POWER	OFF GEN-1	MEP-EMG-ELEV-1
FP-1	FIRE PUMP, ELECTRIC MOTOR-DRIVEN	FIRE PUMP POWER (NFPA 20, NEC 695)	PENDING FLOW TEST	NOT PROVIDED — BY OTHERS	MEP-EMG-FP-1

GENERATOR AND TRANSFER SWITCHES

ITEM	VALUE	RECORD
RUNNING LOAD	NOT PROVIDED — BY OTHERS	MEP-GEN-001
MINIMUM RATING, 85 PERCENT LOADED	NOT PROVIDED — BY OTHERS	MEP-GEN-002
OPTIMUM BAND, 70 TO 85 PERCENT	NOT PROVIDED — BY OTHERS	MEP-GEN-002
LARGEST MOTOR STARTING	NOT PROVIDED — BY OTHERS	MEP-GEN-003
ON-SITE FUEL	2 H AT FULL DEMAND; GALLONS BY THE SET'S FUEL RATE	MEP-GEN-004

AVAILABLE FAULT CURRENT AND NEC 110.24 LABELS

NODE	EQUIPMENT	FED FROM	AFC (A SYM.)	LABEL DATE	RECORDS
MSB	MAIN SWITCHBOARD (SERVICE EQUIPMENT)	UTILITY	NOT PROVIDED — BY OTHERS	NOT PROVIDED — BY OTHERS	MEP-AFC-MSB / MEP-LBL-MSB
LP-L2	FLOOR PANEL, L2	MSB	NOT PROVIDED — BY OTHERS	NOT PROVIDED — BY OTHERS	MEP-AFC-LP-L2 / MEP-LBL-LP-L2
LP-L3	FLOOR PANEL, L3	MSB	NOT PROVIDED — BY OTHERS	NOT PROVIDED — BY OTHERS	MEP-AFC-LP-L3 / MEP-LBL-LP-L3
LP-L4	FLOOR PANEL, L4	MSB	NOT PROVIDED — BY OTHERS	NOT PROVIDED — BY OTHERS	MEP-AFC-LP-L4 / MEP-LBL-LP-L4

NOTES

1. THE LOADS ARE READ FROM THE MEP ENGINE'S OUTPUT, AND IBC 2021 2702.2 SETS EACH CLASS: EMERGENCY IS NEC 700, 10 S TO TRANSFER; STANDBY IS NEC 701 LEGALLY REQUIRED STANDBY, 60 S.
2. GEN-1: RUNNING LOAD IS THE SUM OF THE LOADS IT CARRIES (NEC 700.4(A), 701.4), RATED SO IT RUNS 70 TO 85 PERCENT LOADED AND NEVER UNDER 30, IN KVA AT 0.8 PF, LARGEST MOTOR STARTED FIRST, LISTED TO UL 2200, FUEL FOR 2 H (IBC 2021 2702.1.5).
3. FAULT CURRENT: THE SERVICE VALUE IS THE UTILITY'S LETTER (2026 OESC 110.24(A) EXCEPTION NO. 2). EACH PANEL TAKES EATON'S POINT-TO-POINT OVER ITS FEEDER, WITHOUT MOTOR CONTRIBUTION.
4. ARC FLASH: THE STUDY IS THE CONSULTANT'S, ON IEEE 1584, AND IT STARTS FROM THE SERVICE VALUE IN THE BANNER ABOVE.
5. SELECTIVE COORDINATION OF EMERGENCY AND STANDBY DEVICES, .01 S AND LONGER (2026 OESC 700.32(A), 701.32(A)), IS THE ENGINEER OF RECORD'S, WITH OREGON'S CERTIFICATE.
6. ELECTRICAL ENGINEER TO OBTAIN: THE UTILITY'S AVAILABLE FAULT CURRENT LETTER (PGE), WITH ITS DATE.
7. ELECTRICAL ENGINEER TO OBTAIN: FP-1: THE FIRE PUMP FLOW TEST, THEN ITS HP.
8. ELECTRICAL ENGINEER TO OBTAIN: FEEDERS FOR LP-L2, LP-L3, LP-L4.
9. ELECTRICAL ENGINEER TO OBTAIN: THE EXIT SIGN POWER SOURCE.
10. ELECTRICAL ENGINEER TO OBTAIN: THE GENERATOR MANUFACTURER'S STARTING KVA CURVE, FUEL RATE AND SUBTRANSIENT REACTANCE.
11. ELECTRICAL ENGINEER TO OBTAIN: EACH TRANSFER SWITCH'S SHORT-CIRCUIT CURRENT RATING.

EMERGENCY POWER ONE-LINE (SCHEMATIC)



ON THEIR OWN BATTERIES, OFF GEN-1:

EGR-LTG MEANS OF EGRESS ILLUMINATION, UNIT EQUIPMENT, OWN BATTERY

FACP FIRE ALARM CONTROL PANEL, FACP BATTERY (MEP-FA-BAT)

1 EMERGENCY POWER AND AVAILABLE FAULT CURRENT
SCALE: NTS

SHEET NOTES

1. ELECTRICAL: SPECIFIED IN SECTION 26 05 00.

NOT PROVIDED — BY OTHERS
APPLICANT / OWNER

CONSULTANTS

STRUCTURAL	NOT PROVIDED — BY OTHERS
CIVIL	NOT PROVIDED — BY OTHERS
MECHANICAL	NOT PROVIDED — BY OTHERS
PLUMBING	NOT PROVIDED — BY OTHERS
ELECTRICAL	NOT PROVIDED — BY OTHERS
LANDSCAPE	NOT PROVIDED — BY OTHERS
FIRE PROTECTION	NOT PROVIDED — BY OTHERS
GEOTECHNICAL	NOT PROVIDED — BY OTHERS

REVIEW

Prepared for review by the design professional of record. Not for construction or permit submission.

PROJECT

Architecture.Engineering — L courtyard study

FICTIONAL STUDY: NO REAL PARCEL
ARCHITECTURE.ENGINEERING — L COURTYARD STUDY
OCCUPANCY R-2, M · CONSTRUCTION NOT PROVIDED — BY OTHERS · STORIES 4

REVISIONS

MARK	DATE	DESCRIPTION

REGISTER

Project	AE-STUDY-L01
Issue	NOT PROVIDED — BY OTHERS
Date	NOT PROVIDED — BY OTHERS
Drawn	NOT PROVIDED — BY OTHERS
Scale	NTS
Phase	CONSTRUCTION DOCUMENTS

OPEN ISSUE

The set's open issue is stated on the cover, G0.01.

EMERGENCY POWER AND AVAILABLE FAULT CURRENT

SHEET

E3.2