

DC-02 13.8 KV SWITCHGEAR



The purpose of the DC-02 is to receive 13.8 kV from AP98 and AP99 and distribute it for use by the loads connected to DC-02.

DC-02 is made up of 11 separate cubicles. DC-02 is powered from AP98 and AP99 with the ability to be cross tied through Bay 6. A key interlock prevents DC-02 from being inadvertently synchronized with both AP98 and AP99.

DC-02 13.8 kV (Blue) Switchgear supplies DC-02 4.16 kV Switchgear through the DC-02 South Transformer in Bay 11 (Blue).

DC-02 13.8 kV (Red) Switchgear supplies DC-02 4.06 kV Switchgear through DC-02 North Transformer in Bay 3 (Red).

POWER	RESERVE	BAY	INCOMING VOLTAGE	CKT NUM	BASE ID	SUPPLYS POWER TO	LOAD IDENTIFIER	LOAD VOLTAGE	NOTES
AP98-103B	MTM	5	13.8 kV	CABLE #181	8201-E12	RED LINE MAIN POWER FROM AP98 (RED)	N/A	N/A	
		1	13.8 kV	N/A	8201-E9	SPARE	N/A	N/A	
		2	13.8 kV	KCPA #2	8201-E10	KRANNERT CENTER FOR THE PERFORMING ARTS	0052-E2 0052-E3	480/277 V 280/120 V	KEY INTERLOCKED TO NORMALLY PROVIDE POWER TO TWO TRANSFORMERS: 1. 13.8 kV - 480/277 V KCPA MECH EQUIP CENTER TRANSFORMER AND 2. 13.8 kV - 208/120 V KCPA GREAT HALL - EAST TRANSFORMERS
		3	13.8 kV	20-3	8201-E11	DC-02 4.16 kV SWITCHBOARD RED MAIN	8201-E19	4.16 kV	TO DC-02 4.16 kV SWITCHBOARD THROUGH 13.8 kV - 4.16 kV TRANSFORMER DC-2 XFMR-NORTH
		4	13.8 kV	N/A	N/A				
		6	13.8 kV			BUS TIE			ALLOWS DC-02 TO BE POWERED FROM EITHER SIDE
AP98-113B	MTM	7	13.8 kV	CABLE #52	8201-E13	BLUE LINE MAIN POWER FROM AP98 (BLUE)	N/A	N/A	
		8	13.8 kV	N/A			N/A	N/A	
		9	13.8 kV	N/A	8201-E14	SPARE	N/A	N/A	
		10	13.8 kV	KCPA #1	8201-E15	KRANNERT CENTER FOR THE PERFORMING ARTS	0052-E1 0052-E4	208/120 V	KEY INTERLOCKED TO NORMALLY PROVIDE POWER TO TWO TRANSFORMERS: 1. 13.8 kV - 208/120 V KCPA DRAMA WEST 2. 13.8kV - 208/120 V KCPA MUSIC SOUTH
		11	13.8 kV	20-11	8201-E16	DC-02 4.16 kV SWITCHBOARD BLUE MAIN	8201-E20	4.16 kV	TO DC-2 4.16kV SWITCHBOARD THROUGH 13.8 kV - 4.16 kV TRANSFORMER DC-2 XFMR-SOUTH

NORTH

SPARE	KCPA #2	FEED TO DC-2 NORTH TRANSFORMER	PT COMPARTMENT	MAIN #1 FEED FROM AP98-103A CABLE #181	BUS TIE	MAIN #2 FEED FROM AP98-113B CABLE #52	PT COMPARTMENT	SPARE	KCPA #1	FEED TO DC-2 SOUTH TRANSFORMER
BAY #1	BAY #2	BAY #3	BAY #4	BAY #5	BAY #6	BAY #7	BAY #8	BAY #9	BAY #10	BAY #11

SOUTH

6-0	MAIN #1 FEED FROM NORTH TRANSFORMER	BUS TIE	MAIN #2 FEED FROM NORTH TRANSFORMER	21-0
BAY #2	BAY #3	BAY #4	BAY #5	BAY #6
8213 MAIN FEED TO LC-6				8219 MAIN FEED TO LC-21
15-0				44-0
BAY #1				BAY #7

ONE-LINE DIAGRAM

