

# POWER DISTRIBUTION

CIRCUIT	PURPOSE	FEED	RATING	BRANCH	CONDITIONING	CONTROL	ROUTING	EQUIPMENT	LOAD
BALCONY1	General	Ackerman Hall panel, breaker xx	Unknown	N/A	None	None	Unknown	Duplex on north wall	?
								Quadplex on south wall	?
BALCONY2	Chancel spot lights	Ackerman Hall panel, breaker xx	Unknown	N/A	None	Dimmer on south wall	Unknown	Two spot lights located along the front of the balcony ceiling	500 watts
ISO1	All audio equipment except most power amplifiers	Isolated technical power sub-panel in electrical room, breaker 1 ,	120 VAC 20 A GFI	→ ANALOG DIGITAL BULK	Monster power controller in balcony provides three separately filtered branches detailed below	Monster three stage power sequencer	Flex conduit drop from balcony ceiling terminating into an orange iso duplex	Monster power controller in media rack	[See branches below]
					Monster power conditioner	Monster power sequence #1	From Monster analog output to power strips in media rack	CD and DVD players, tape recorder, and other analog audio equipment	105 watts
					Monster power conditioner	Monster power sequence #2	From Monster digital output to power strips in effects rack and wireless mics rack	Mixer, effects rack, wireless mic rack	480 watts
					Monster power conditioner	Monster power sequence #3	From Monster bulk output to amplifier	Narthex power amplifier	280 watts
					Monster power conditioner		From Monster bulk output to orange isolated duplex mounted in amplifier closet	Monitor power amplifier	1,200 watts
ISO2	Main power amplifiers	Isolated technical power sub-panel in electrical room, breaker 2	120 VAC 20 A High inrush	N/A	Furman surge protection.	Monster power sequence #3 via a contactor	Piggy backed off above iso duplex	Control contactor for Iso-2	10 watts
							From amplifier closet to choir loft orange isolated duplex mounted in floor pocket	Musicians backline gear	?
COMP1	Balcony computers and related equipment	XXXX panel, breaker xx	120 VAC TBD A	N/A	UPS online type @ 1,200 VA	Computer controlled power switch on UPS	Drop to computer rack	File server, routers, switches, and video computer	900 watts

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					Non shunting MOV surge suppressor	None	Along east wall of balcony	Media and web development computers	500 watts
COMP2	Network wiring closet	Mechanical room panel, breaker xx	120 VAC 20 A	N/A	UPS standby type @ 500 VA and lightning protection on inbound utility cables. Dedicated (not isolated) ground from equipment to mechanical room plumbing.	None		Switches, routers, phone system	240 watts
						Switch on power strip for user rebooting of select equipment		Gateway, firewall, VPN	130 watts
VIDEO1	All video equipment	[TBD]	120 VAC TBD A	N/A	UPS online type, @ 1,200 VA	Rack mounted power switch	TBD...but needs to terminate in video rack	Distribution amps, camera remotes, switcher, CG, etc.	800 watts
LITES	Theatrical lighting	[TBD]	120 VAC 160 A		Non-shunting MOV surge suppressor	Use projector remote power controls	TBD	Front projector	375 watts
			GROUP1	Toroidal, TBD	Dimmer 1	Rear projector		350 watts	
				Toroidal, TBD	Dimmer 2	Fill projector		630 watts	
CHANCEL	Additional backline power (non isolated)	Unknown	120 VAC Xx A	N/A	N one	Illuminated switch on north chancel wall	Duplex in pit under chancel on the north wall	Musicians backline gear	?
AUX1	Motor controlled projection screen and remote	2 <sup>nd</sup> floor office panel, breaker xx	120 VAC Xx A	SCREEN	None	None	Power to controller box located in closet by pipe organ chamber.	Controller box	Unknown
				SCREENCTL	None	Switches in balcony and amp closet	From controller box to suspended projection screen. Low voltage remote control lines run from closet to balcony and amp closet.	Projection screen	Unknown
				AUX AMPS	None	Illuminated switch on south balcony wall.	From office panel to balcony switch then to duplex in closet.	Auxillary power amplifiers	?

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SHORE1	Isolated technical power for outdoor concerts	Isolated power subpanel in electrical room circuit #1	120 VAC 20 A GFI	N/A	None	Manually disconnect from building iso tech power	Mutually exclusive with isolated technical power in the building. Distro box and cable to be run from electrical room out through access panel to parking lot as needed.	As needed	2,200 watts
SHORE2	Isolated technical power for outdoor concerts	Isolated power subpanel in electrical room circuit #2	120 VAC 20 A GFI	N/A	None	Manually disconnect from building iso tech power	Mutually exclusive with isolated technical power in the building. Distro box and cable to be run from electrical room out through access panel to parking lot as needed.	As needed	2,200 watts
SHORE3	Isolated technical power for outdoor concerts	Isolated power subpanel in electrical room circuit #3	120 VAC 20 A GFI	N/A	None	Manually disconnect from building iso tech power	Mutually exclusive with isolated technical power in the building. Distro box and cable to be run from electrical room out through access panel to parking lot as needed.	As needed	2,200 watts