

Augustus Kapko Sound System and Projection Upgrade

Objective

This system proposal would bring the speaker system and projection systems utilized by the Entertainment department to modern professional level, both providing the tools necessary to learn and deploy professional level audio and video systems.

Goals

Audio

- Provide even coverage throughout the theatre.
- Update system components to modern technologies utilized in professional environments.
- Have equipment that is used widely in the professional market in order to better prepare students for post-graduation employment through hands on experience.

Video

- Provide flexibility for the use of projections in the theatre.
- Update system components to modern technologies utilized in professional environments.
- Have equipment that is used widely in the professional market in order to better prepare students for post-graduation employment through hands on experience.

Solution

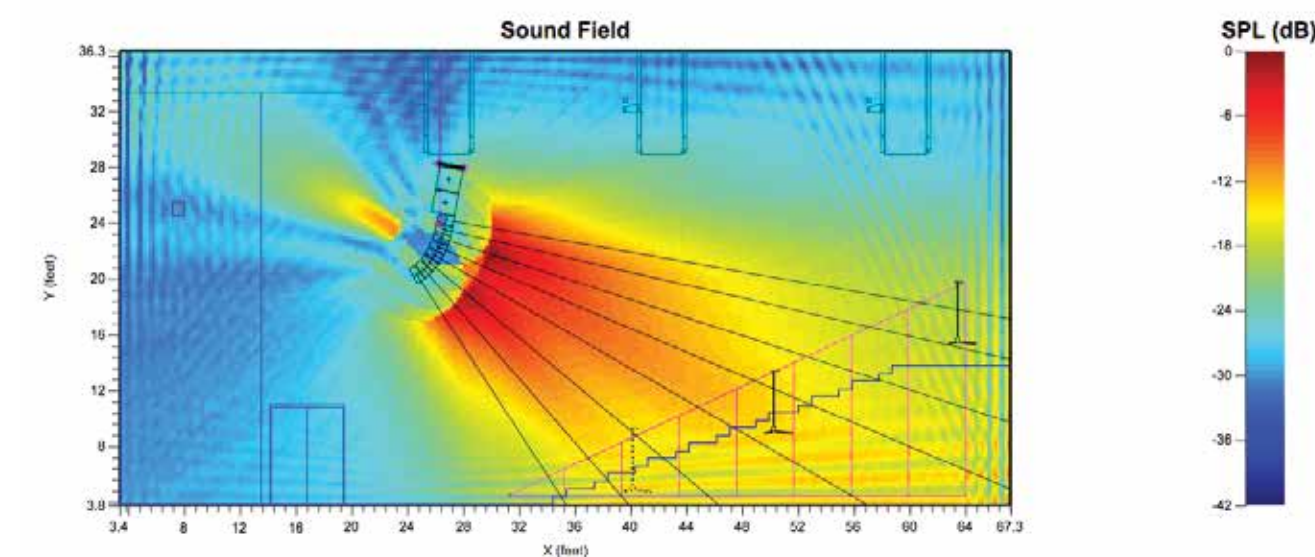
In order to meet the goals above I propose the purchase of a Meyer Line Array Speaker System for our audio system, and the purchase of 2 projectors to be utilized for the video system.

SPEAKER SYSTEM

- Provides even coverage across the listening plane of the theatre.
 - Provides students with hands on experience with professional equipment commonly utilized.
 - Able to accommodate almost every performance in the space.
- Expected Life Span: 10-15 Years
Expected Purchase Cost Estimate: 120K USD

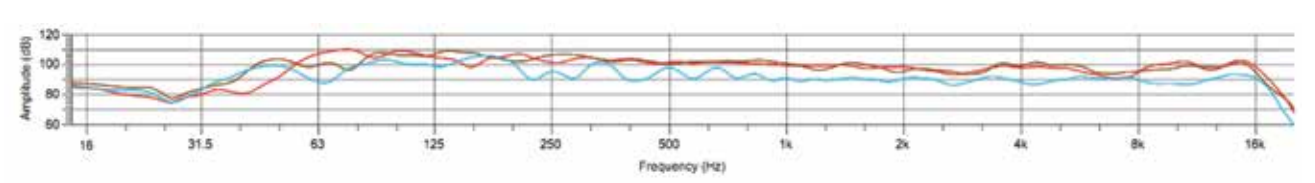
PROJECTION SYSTEM

- Provides flexibility to accommodate projection needs for events and shows in the theatre.
 - Provides students with hands on experience with professional equipment commonly utilized.
 - Able to accommodate projection needs for almost every performance in the space.
- Expected Life Span: 7-10 Years
Expected Purchase Cost Estimate: 65K USD

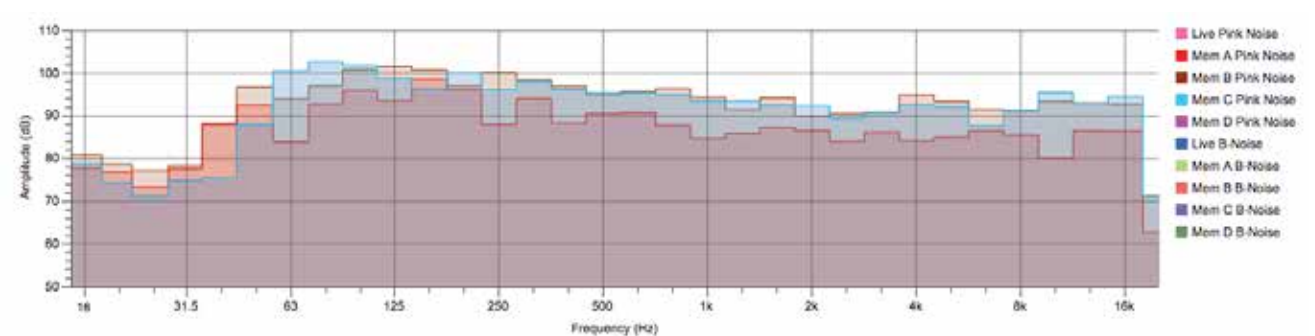


Meyer Sound
Air Attenuation On:
Temperature = 68.0°F
Pressure = 101.33 kPa
Relative Humidity = 50.0%

Relative Bandwidth = 1/3 octave
Center Frequency = 1000 Hz
Start Frequency = 662.8 Hz
Stop Frequency = 1748 Hz



Headroom Pink Noise (1/3 Octave Averaging)

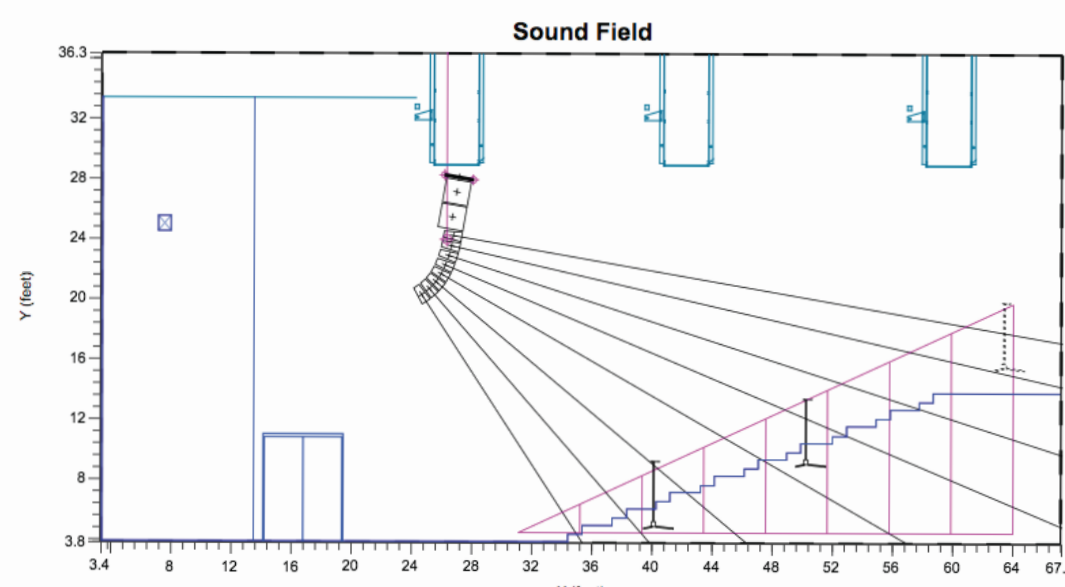


Meyer Sound
Air Attenuation On:
Temperature = 68.0°F
Pressure = 101.33 kPa
Relative Humidity = 50.0%

Microphone + media:
Position = 05.0Z, 13.375 feet
Approximate Distance = 20 feet
Peak Impulse = 20.73 ms

Input Source = Pink Noise
Average SPL = 104.8 dB(A), 110.0 dB(C), 110.9 dB(Z)
Linear Peak SPL = 123.0 dB(Z)

SYSTEM ORIENTATION	FACING DIRECTION	REFERENCE POINT	REFERENCE POSITION	ROTATION ABOUT REFERENCE POINT	DISTANCE TO ARRAY	ARRAY ORIENT.	
From	Right	Foot	(28.11, 27.80) ft	-4.91°	18.88 ft	-4°	
ID	ELEMENT MODEL	SPLAY ANGLE	REAR ANGLE	FRONT ANGLE	TOTAL ANGLE	AZIM CH	PROCESSOR LABEL
1	750-LFC front facing, middle slot	0°	0°	-8.91°	10.1°	1	ARR 10 Output 1
2	750-LFC front facing (LINA forward)	0°	0°	-8.91°	10.1°	1	ARR 10 Output 1
3	LINA	0°	0°	-8.91°	11.1°	1	ARR 11 Output 1
4	LINA	0°	0°	-12.91°	12.1°	1	ARR 12 Output 1
5	LINA	-5°	-5°	-17.91°	13.1°	1	ARR 13 Output 1
6	LINA	-5°	-5°	-22.91°	13.1°	1	ARR 13 Output 1
7	LINA	-2°	-2°	-28.91°	14.1°	1	ARR 14 Output 1
8	LINA	-10°	-10°	-38.91°	14.1°	1	ARR 14 Output 1
9	LINA	-5°	-5°	-43.91°	15.1°	1	ARR 15 Output 1
10	LINA	-5°	-5°	-48.91°	16.1°	1	ARR 16 Output 1
ARRAY HEIGHT	ARRAY DEPTH	COG POSITION	COG TO REFERENCE	COG TO RIGGING	REAR POSITION LOAD	FRONT POSITION LOAD	TOTAL WEIGHT
8.75 ft	4.00 ft	(28.36, 23.95) ft	(-1.75, -0.95) ft	Under Rigging	840.72 lbs	43.78 lbs	884.5 lbs



Meyer Sound
Air Attenuation On:
Temperature = 68.0°F
Pressure = 101.33 kPa
Relative Humidity = 50.0%

Relative Bandwidth Not Available
Center Frequency Not Available
Start Frequency Not Available
Stop Frequency Not Available

