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Glen Thompson
Naval Vessel Life Extension Project Officer
Integrated Technical Services
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Glen

Re: Ambient noise levels on the coast guard vessel Sir William Alexander.

On April 5, 2017, the ambient noise levels were assessed in the HVAC room and in four cabins located beneath the HVAC room one deck below on board the Sir William Alexander. The table and charts on the following pages represent the ambient octave-band noise data collected. The same data are presented in both the table and charts. These data represent the baseline level of noise prior to the HVAC motors being replaced.

Please contact me if I can be of further assistance.

Regards

Michael Sharpe

	Frequency Band										
	16 Hz	31.5 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 KHz	2 KHz	4 KHz	8 KHz	16 KHz
HVAC Room											
Door Closed	73.0 dB	83.4 dB	81.7 dB	75.7 dB	75.6 dB	76.9 dB	73.1 dB	68.4 dB	63.5 dB	58.0 dB	49.6 dB
Door Open	72.6 dB	84.7 dB	81.3 dB	76.1 dB	76.6 dB	77.4 dB	73.1 dB	68.6 dB	62.9 dB	57.4 dB	48.4 dB

	Frequency Band										
	16 Hz	31.5 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 KHz	2 KHz	4 KHz	8 KHz	16 KHz
Senior Engineer											
U24 - Sitting Room - With Generator on	61.0 dB	66.2 dB	58.6 dB	55.8 dB	47.9 dB	44.3 dB	39.7 dB	33.9 dB	25.9 dB	23.2 dB	24.6 dB
U24 - Sitting Room - With Generator off	56.9 dB	65.6 dB	54.6 dB	46.9 dB	41.4 dB	36.5 dB	36.4 dB	30.0 dB	21.3 dB	15.4 dB	14.9 dB
U24- Bedroom - With Generator off	55.6 dB	65.2 dB	55.2 dB	48.6 dB	41.0 dB	32.2 dB	34.8 dB	29.1 dB	20.3 dB	16.1 dB	15.0 dB

	Frequency Band										
	16 Hz	31.5 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 KHz	2 KHz	4 KHz	8 KHz	16 KHz
Logistics Officer											
U29 - Generator On	60.7 dB	69.6 dB	53.9 dB	55.7 dB	47.2 dB	37.2 dB	32.1 dB	28.0 dB	23.2 dB	23.0 dB	23.1 dB
U29 - Generator Off	58.7 dB	69.2 dB	52.7 dB	55.7 dB	46.7 dB	33.8 dB	29.7 dB	26.5 dB	23.0 dB	22.3 dB	21.7 dB

	Frequency Band										
	16 Hz	31.5 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 KHz	2 KHz	4 KHz	8 KHz	16 KHz
3rd Officer											
U36 - Generator Off	60.3 dB	73.1 dB	56.0 dB	52.1 dB	43.0 dB	34.9 dB	33.1 dB	26.8 dB	19.8 dB	16.0 dB	14.9 dB

	Frequency Band										
	16 Hz	31.5 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 KHz	2 KHz	4 KHz	8 KHz	16 KHz
Electrical Engineer											
U41- Generator Off	56.1 dB	73.1 dB	54.3 dB	53.0 dB	44.6 dB	37.7 dB	35.0 dB	29.9 dB	22.6 dB	18.2 dB	16.3 dB

HVAC Room – Door closed



HVAC Room – Door open



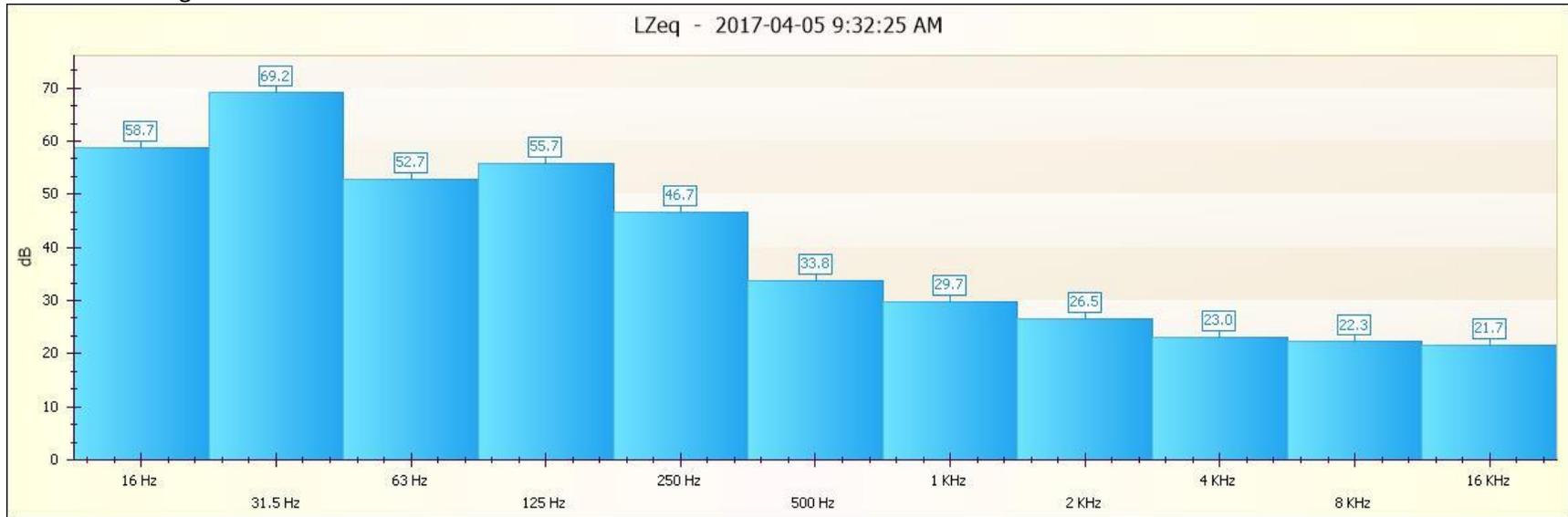
U24 – Senior Engineer – Sitting Room



U24 – Senior Engineer – Bedroom



Room U-29 – Logistics Officer



U-36 – 3rd Officer



U-41 – Electrical Engineer

