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Design remodeling of warm helium screw compressor skid assembly

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A good portion of the typical helium refrigeration system inefficiency is attributed to the warm helium compressor subsystem. Much of the current helium refrigeration system efficiency improvement R+D centers on the refrigerator components which extract the energy from the gas but very little is research and development has gone into the portion of the system in which the energy is being put into the cycle. With rapidly rising utility costs and raw materials such as carbon steel, the continued optimization of helium compression systems in terms of performance and equipment cost has never been greater. An overview of the Jefferson Lab's redesign activity in cooperation with industry will be presented.

Proposed for workshop session (see call for abstracts): 1- Operation 2- Maintenance 3 - Safety 4 - Control

1-Operation

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