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OPERATION OF FIVE ATMOSPHERE GAS FILLED TARGETS AT NOVA

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High Pressure/Density Gas Handling Systems will play an increasingly important roll in the drive to NIF like conditions. We have designed and built an insitu gas fill system that will handle pressures from vacuum to five atmospheres. We have designed and tested hohlraums to handle increased pressure. These new designs have been used in experiments.

This paper describes the fill system used to gas fill hohlraums to 5 atmospheres as built and fielded by LANL for NOVA Laser experiments. Target designs used are JCFLG hohlraum.

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