

AN ABSTRACT OF A THESIS

EXPERIMENTAL STUDY OF A SMALL-SCALE VOLOXIDIZER  
OFF-GAS DRYING SYSTEM

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Master of Science in Chemical Engineering

An apparatus was designed and constructed and experimental data were taken on fourteen adsorption cycles. The data indicate iodine had little effect on the drying capacity of the molecular sieves. Serious corrosion problems were encountered in those parts of the apparatus made from stainless steel, indicating that the use of this material in a drying system of this type is questionable. Suggestions for improvements in the experimental apparatus are presented which should lead to more reliable operation.

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A Thesis

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by

Sidney W. Jones

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CERTIFICATE OF APPROVAL OF THESIS

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