AN EXPERIMENTAL STUDY OF RICE ASH GLAZE FOR STONEWARE

AN ABSTRACT

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Presented in Partial Fulfillment of the Requirements

for the Master of Education Degree

in Industrial Education

at Naresuan University

May 1996

The aim of this experimental research was to find a mixture of rice ash glaze for stoneware. The raw materials were rice ash, feldspar and clay. The samples were fired at a constant temperature of 1,240 degrees celsius under a reduction atmosphere. Using the tri-axial purposive sampling method, thirty-six samples of glaze materials were selected. Samples then were evaluated by ceramic experts. These glazes fired through reduction yielded three levels of shine on the surface: matt, semi-matt and glossy. Then the best quality sample was selected for retest of mat, semi-mat and glossy surfaces.

The study showed that the glaze fired through a reduction atmosphere yielded three levels of shine on the surface; matt, semi-mat and glossy. The physical quality of the stoneware was suitable.