Platform development of x-ray absorption-based temperature measurements above 100-eV PAUL KEITER, JOHN BENAGE, NICK LANIER, KUNEGUNDA BELLE, GLENN MAGELSSEN, BARBARA DEVOLDER, Los Alamos National Laboratory, ANDREW COMLEY, JOHN MORTON, MARK TAYLOR, Atomic Weapons Establishment — Experiments are being performed on the OMEGA laser system at the University of Rochester to develop experimental techniques for measuring the temperature of radiatively heated foams. The development of this technique in the temperature range of 100 – 200 eV is required for future NIF experiments. We will present a current summary of the experimental data as well as direction for the future campaigns. This was performed by the Los Alamos National Laboratory under the auspices of the United States Department of Energy under contract no. DE-AC52-06NA25396.

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