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Thermal Decomposition Models for High Explosive Compositions JONATHAN ZUCKER, PETER DICKSON, BRYAN HENSON, DAVID ZERKLE, MARY SANDSTROM, Los Alamos National Laboratory — As interest in the cookoff response of high explosives expands to include commercially-available compositions, the need has arisen for a broad spectrum of predictive capabilities to describe the untoward thermal decomposition of these explosives. Empirical models for several compositions, including PETN, Semtex and Comp B, have been developed and tested against existing experimental data.

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