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Continued Investigation of the Solid-Solid Phase Transitions in Zirconium P.A. RIGG, C.W. GREEFF, G.T. GRAY, III, Los Alamos National Laboratory — Work has continued to refine and investigate differences in the Hugoniot for Zirconium with differing impurity levels. Past work has shown that interstitial oxygen inhibits the $\alpha \rightarrow \omega$ phase transition but appears to have little effect on the $\omega \rightarrow \beta$ phase transition. Further plate impact experiments have been carried out to determine differences in the Hugoniot for two of the three types of Zirconium samples studied in previous work.

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