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ELM Triggering From Deuterium Pellets Injected into DIII-D¹ L.R. BAYLOR, T.C. JERNIGAN, Oak Ridge National Laboratory, T.E. EVANS, P.B. PARKS, General Atomics, M.E. FENSTERMACHER, Lawrence Livermore National Laboratory, R.A. MOYER, University of California-San Diego — Deuterium fueling pellets have been injected into DIII-D plasmas from five different locations and under different plasma H-mode conditions. Edge localized modes (ELMs) have been triggered from pellets injected from all locations and under all the H-mode scenarios thus far explored. Pellets injected into plasmas with ELMs suppressed by a resonant magnetic perturbation are also observed to trigger one or more ELM like events. Experimental details of the pellet triggering of ELMs on DIII-D will be reviewed. In addition a pellet dropper has been installed on DIII-D for ELM pacing studies. Initial results from the slow 1mm pellets dropped into the edge plasma will be presented.

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