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Beam Dynamics Studies in the RACE Project: MH1 transport line –low power regime operation- CARLOS MAIDANA, ALAN HUNT, Idaho State University, Dept. of Physics, DENIS BELLER, Idaho Accelerator Center — As part of the Reactor Accelerator Coupling Experiments (RACE) a set of preliminary studies were conducted to design a transport beam line that could bring a 25MeV electron beam from a linear accelerator to a neutron-producing target inside a subcritical nuclear system. Because of the relatively low energy beam, the beam size and a relatively long beam line (implicating a possible divergence problem) the MH1 transport line was designed. Beam dynamics studies followed the beam optics ones and we present in this paper the first results of such studies.

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