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Intermediate Silicon Tracker for STAR HFT Upgrade YAPING WANG[1], University of Illinois at Chicago, STAR COLLABORATION — The STAR experiment at the Relative Heavy Ion Collider in Brookhaven National Laboratory at Upton, NY will soon be upgraded with the a Heavy Flavor Tracker (HFT), which will greatly enhance the capability for heavy flavor studies by measurements of displaced vertices and direct topological reconstruction of open charm hadrons. The HFT consists of 4 layers of silicon detectors. The Intermediate Silicon Tracker (IST) is one of these layers. It uses conventional silicon pad sensors, which provide a position resolution of about 180 (1800) microns in the r-phi (longitudinal) direction. The IST detector is in production now so that it will be ready for installation in Fall 2013. In this talk, we will present the design and performance of the IST, and the status of the production.

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