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George Mytalas*, mytalas@njit.edu, New York, NY 11209. *An M/G/1 system with delayed feedback times and vacations.* Preliminary report.

We consider an M/G/1 queueing system with individual arrivals subject to server vacations. The server is turned off as soon as the system empties and remains off waiting for the first customer to serve. During the vacation period arriving customers accumulate in the queue without receiving service. Also after completion of the service customer can join the tail of the queue as a feedback customer after a random time for receiving another service with probability r . Otherwise the customer may depart forever from the system with probability $1 - r$. By applying the supplementary variables method, we obtain the steady-state solutions for queueing measures. (Received September 16, 2014)