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Impact of Priority Sequencing Decisions on On-Time Probability and Expected Tardiness of Orders in Make-To-Order Production Systems with External Due-Dates

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PII: S0377-2217(17)30489-7
DOI: 10.1016/j.ejor.2017.05.042
Reference: EOR 14470

To appear in: *European Journal of Operational Research*

Received date: 8 December 2015
Revised date: 14 May 2017
Accepted date: 20 May 2017

Please cite this article as: Miray Öner-Közen, Stefan Minner, Impact of Priority Sequencing Decisions on On-Time Probability and Expected Tardiness of Orders in Make-To-Order Production Systems with External Due-Dates, *European Journal of Operational Research* (2017), doi: 10.1016/j.ejor.2017.05.042

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Highlights

- The priority sequencing problem is modeled as a Markov decision process.
- The objective function is the sum of a fixed and a variable cost of tardiness.
- It is possible to achieve near optimal performance by employing simple rules.
- Increasing fixed cost deteriorates performance of the earliest-due-date-first rule.
- Making decisions upon order completion provides further improvement potential.

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