

Yard Management System for Efficient Trailer Dispatches

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Abstract: This paper talks about digitalization of trailer dispatch process at coil yard of an integrated iron and steel plant. The system enables users to prepare trailer loading plans and helps monitor the progress in real-time. The application has built in interface with SAP system to automate the generation of dispatch related documents. It offers visibility to all the agencies engaged in trailer dispatch activities to enable efficient movement of trailers in and out of yards. It helps boost efficiency by automating delivery and invoice documents creation.

Keywords: Sequence diagram, SAP, STO, Web service.

I. INTRODUCTION

In a year over 75000 trailer trips are made for transporting coils from yards to various outbound customer locations. Hot Strip Mill (HSM) has three coil yards viz. C1, C2 and C3. Each yard has loading positions shown in **Figure 1**, where trailers are required to reach for loading the coils. According to the capacity of trailer and weight of coil a trailer is loaded with 1, 2 or more coils. In rare cases, coils to be loaded are distributed in two yards and accordingly a trailer must move to next yard for loading remaining coil(s).

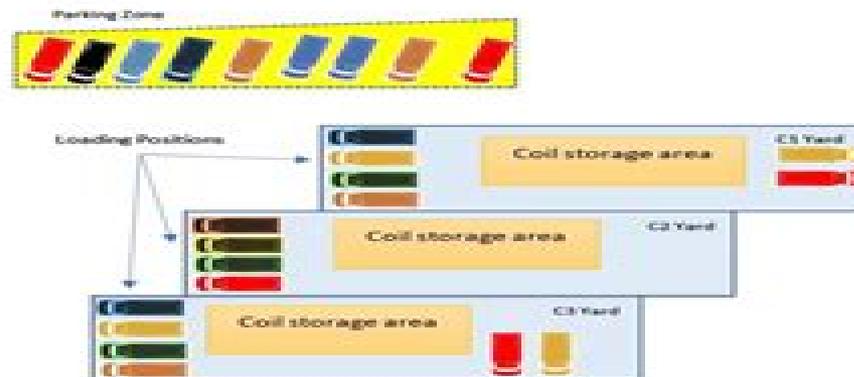


Figure 1: HSM yard layout showing trailer loading positions.

Trailer operators are not aware of the yard from which the coil(s) would be loaded and the loading sequence. If coils to be loaded are in two yards, the trailer operator does not know beforehand which yard to enter first and availability of loading point there. A trailer reaching the yard entrance out of its turn or without prior information on the availability of loading position holds the risk of introducing bottlenecks in the dispatch process [1]. To control the movement of trailers in the yard, a digitalized Yard Management System (YMS) needs to be developed to automate the dispatch related activities from planning till invoice generation. All the necessary information regarding the loading sequence and occupancy status of loading points to be made available to trailer operators at a central trailer registration window in digital format. The trailers will leave the parking zone and proceed towards its loading position only when its status becomes "free".

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