MODEL THE REFORM OF MANAGEMENT SYSTEM OF THE PROCESS OF COMPANY

©Gerasimov B.N., 2015

Management of production capacity (MPC) – is the process of the most complete use of available equipment with a constant optimization of its composition and types realized by using the advanced technology, by the established specialization and by the mode of operation oriented to the long term exploitation of means of labor.

Management subsystem of the production capacity implements the particular functions: managing the availability of equipment disposals, managing the equipment modernization, managing the equipment maintenance, etc., in this regard, it can be called functional. Functional subsystems that implement a particular process, display distinct system features, therefore we will use the term (MSPC).

Management System of the Production Capacity (MSPC) – the set of interrelated functional management tasks (FMT) directed to the achievement of completeness and quality of the functioning of existing equipment, in combination with complex systematic management tools used to address them effectively [1]. During the research it was concluded that the development of the existing MSPC of enterprises bearing production should be in accordance with the model, which is aimed at identifying functional complete composition of management tasks reflecting all aspects of the activities directed on the functioning of production capacity. The functional complete composition of management tasks achieved by identifying the entire set of tasks belonging to MSPC and tasks that are adjacent with it in the confines of subsystems of management system of the organization, that have a direct impact on the implementation of complete management cycle aimed at the functioning of production capacity.

The revision of the existing MSPC should be systematically because its life cycle depends on many factors that follows from the definition of the MPC, given earlier. In this connection the requirement was formed to the model of building a complex MSPC – the opportunity of reusable employment.

The complex MSPC – is an aggregate functional complete composition of interrelated management tasks solutions of which creates ideal conditions of the functioning of production capacity [2].

A model of building a complex system was developed (fig. 1).

![Diagram of the MSPC model](https://example.com/diagram.png)

**Fig. 1. A model of building a complex MSPC for a company production of bearings**

The aim of building a complex MSPC is changing with its help the structure of an existing MSPC of a company. The deviations detected by overlaying of a complex MSPC can be divided into three groups: tasks that
Identified deviations are eliminated: determining the cause of incomplete solving tasks included in the structure of existing MSPC and further elimination of these causes; the revision of a complex of means and managing methods used in solving FMT making the structure of the existing MSPC; the inclusion into the existing structure of MSPC previously unsolved tasks and searching for means to ensure their solutions. To eliminate variations in the structure of the existing system in bearing company there was a need in the development of technology solutions of FMT MSPC which allows to increase efficiency and quality of taken management decisions related to the operation of the system. The use of technology of the holistic MSPC is impossible, since its structure is a complex mechanism.

The development of technology of solutions of management tasks is proposed to start with a definition of the MSPC structure. MSPC structure was introduced as a combination of its subsystems or "Functional Control Blocks" (FCB) and FMT which are solved in them [2].

After determining the FMT there is a need in the development of technological equipment of their solutions which will permit to clarify the entire set of information circulating in MSPC.

The technology of solutions of management tasks is to convert the input information required for solving a particular task in output information received at the further its solution. The transformation of information within FMT occurs by using procedures of solutions.

The sequence of designing the development of technology management tasks solutions contains a few stages. Initially, the output information to be obtained within the specific FMT is determined and presented in the form of documents of the organization. Then a choice of the operations is produced to transform the input information to output information, which was given earlier.

*The purpose of developing the technology of solutions management tasks is:*

1. search for the FMT in the subsystems of management system organization which are interacting with the FMT MSPC; inclusion the adjustments in solving the FMT of MSPC to achieve the maximum possible positive results of its functioning; systematization of information within MSPC; reducing the time for decision-making functional management tasks.

The solution of the presented task is aimed at optimizing of the quantity of production capacity for the needs of production activities of the bearing company. The need for solving this task is caused by the fact that the quantity of production capacity requires systematic and precise corrections.

The further use of technological solutions of all FMT contributes to a better quality of the impact on the production capacity of the company. Representation FMT of MSPC on described technology allows to define clearly all the necessary documents that carry information for solving each specific management task, what systematizes a document turnover of the companies producing bearings. Using the described technology in solving management tasks we can reduce the risk of ineffective management of production capacity, which is associated with incompetence of a manager, because procedures necessary to deal with each specific task are described.

The proposed technology of solution FMT contributes to the identification of new tasks which were not previously a part of the MSPC. The further inclusion of these tasks in the system's structure promotes the growth of objectivity in assessing the production possibilities of a company and increase of efficiency in managing of production capacity. In turn, it entails the implementation of the justifiable employment of production capacity, achievement in the increase of the time functioning of the equipment in the production process, achieving the uniformity in the operation of production capacity.
