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***Implementation of the MPC&A Operations  
Monitoring (MOM) System at JSC "PO"Sevmash"***

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# **Implementation of the MPC&A Operations Monitoring (MOM) System at JSC “PO”Sevmash”**

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## **ABSTRACT**

The Material Protection, Control and Accounting (MPC&A) Program has been working since 1994 with nuclear sites in Russia to upgrade the physical protection (PP) and material control and accounting (MC&A) functions at facilities containing weapons usable nuclear material. In early 2001, the MPC&A program initiated the MPC&A Operations Monitoring (MOM) Project to monitor facilities where MPC&A upgrades have been installed to provide increased confidence that personnel are present and vigilant, provide confidence that security procedures are being properly performed and provide additional assurance that nuclear materials have not been stolen. The MOM project began as a pilot project at the Moscow State Engineering Physics Institute (MEPhI) and a MOM system was successfully installed in October 2001. Following the success of the MEPhI pilot project, the MPC&A Program expanded the installation of MOM systems to several other Russian facilities, including the JSC “PO” Sevmash”, Severodvinsk, Russia.

The MOM system was made operational at Sevmash in September, 2008. This paper will discuss the objectives of the MOM system installed at Sevmash and indicate how the objectives influenced the development of the conceptual design. The paper will also describe activities related to installation of the infrastructure and the MOM system at Sevmash. Experience gained from operation of the system and how the objectives are being met will also be discussed. The paper will describe how the MOM system is used at Sevmash and, in particular, how the data is analyzed. Finally, future activities including potential expansion of the MOM system, operator training, data sharing and analysis, procedure development, repair and maintenance will be included in the paper.