

## NEW FLASH SMELTER FOR RTB-BOR IN CENTRAL SERBIA (UNDER CONSTRUCTION)

In January 2011 Outotec signed a contract with S.N.C.Lavalin International to design, supply and install a new copper flash smelting furnace and related services for RTB Bor in Central Serbia. The following photos and text describe the current situation on site, and greetings from our Outotec project team.

The RTB mine and operation go back around 100 years and the work currently being carried out by Outotec and S.N.C. Lavalin is the first significant step in modernizing the production facilities and reducing the environmental impact of the operation.

RTB Bor are currently operating an old reverb type copper smelter and this will be replaced with the new Outotec® Flash Smelting Furnace, which will significantly improve the environmental performance of the plant.

Outotec's turn-key delivery for the new Flash Smelting Furnace includes the plant license and engineering, procurement, equipment supplies, construction and commissioning services.

The project is scheduled for completion in December 2013.

The new Flash Furnace has a capacity of 80,000 tonnes per year of copper anode while reducing liquid and gaseous emission levels to European standards. In 2008 the sulphur recovery was only about 35 % and the sulphur emissions into the environment were about 41,000 tons. Whereas, modern copper flash smelting process captures more than 99 % of the incoming sulphur, significantly reducing the environmental impact.

### ***Outotec Engineering and Procurement***

Outotec Basic engineering delivered in February 2011 and construction work on site started in December 2011.

Outotec detail engineering for the plant is complete.

The supply of equipment by Outotec is well ahead of schedule and the majority of equipment is on site and ready for installation as the construction of the plant progresses.



New FSF site prior to demolition



New FSF Site during demolition



Construction Progress at 12/10/2012

### **FSF Site Construction**

Site construction work has had its fair share of setbacks, mostly caused by underground tunnels and other obstacles that can happen in a 100 year old plant and we are hampered by the ever present SO2 gas from the old processing plant, which continues to operate during the construction of the new plant. However, the SO2 problem will soon be fixed, but unfortunately not until we have completed the new FSF and left site.

Civil works are largely complete with all the concrete now in the ground.

Work is now focused on the erection of steel buildings and the installation of equipment with all efforts centered on getting enough building cladding installed to minimize construction disruption during the rapidly approaching winter months.



**Back row from the left:** Vlad Gligorijevic - HSE, Aatu Kettunen - Logistics, Andy Moustafa - Snr Construction Supervisor, Aleksandar Marinkovic Document Controller.

**Front row from the left:** Aaron Ward – Construction Manager, Sanja Djordjevic – Administration, Sinisa Slavic - Structural Fabrication and Erection Supervisor, Tony Corkran – Site Manager

We still have many challenges ahead of us to make this another successful Outotec project.

### **The Outotec Project Team**

The project team is headed up by Kirsi Kaasinen, Project Director, Mika Pirttinen, Engineering Manager, Tony Corkran, Site Manager and Aaron Ward, Construction Manager.

» **Kirsi Kaasinen**  
Project Manager



» **Tony Corkran**  
Site Manager

