



SEVERSTAL-PROEKT, RUSSIA

Key Facts

Company: LLC Severstal-proekt

Website: www.severstal.com/eng

Description: LLC Severstal-proekt is the general designer of JSC Severstal, one of the world's leading vertically integrated steel and steel related mining companies with assets in Russia, Latvia, Ukraine, Poland, Italy, and Liberia. Severstal-proekt performs a wide range of design – from 3D design analysis to developing full project documentation throughout project implementation.

Industry: Nuclear

Country: Russia

Products Used:

- Intergraph Smart® 3D
- SmartSketch®
- Intergraph Smart Review

SEVERSTAL-PROEKT BECOMES THE FIRST STEEL INDUSTRY CUSTOMER OF HEXAGON PPM TECHNOLOGIES IN RUSSIA

IDENTIFYING GOALS

Bureau ESG, an information technologies systems integration company, launched a pilot project to implement SmartPlant® Enterprise for Owner Operators technologies in the steel industry in Russia.

Project objectives were to:

- Train the Severstal-proekt team to work in the Intergraph Smart® 3D system
- Create a model of cooperation between design departments within the company when using different design systems
- Train technical support specialists
- Prepare equipment catalogues for further system operations
- Create an 'as-built' model

OVERCOMING CHALLENGES

Over the course of project the modernization, re-design and construction of a new gas cleaning entrapment unit was required. The purpose of the gas cleaning unit is to collect and filter dust that is being formed when handling scrap and pouring iron.



The final goal was to set the dust level of gases in the discharge chimney to no more than 10mg/nm³, which corresponds to international standards. The project was implemented under-time in eight months, with construction occurring simultaneously:

- The customer project team was trained on the use of Hexagon PPM technologies within a month
- The drawings of previous gas cleaning units were studied, with research showing which parts of the system should be modernized and which needed to be replaced
- With the use of Smart 3D, the existing system of smoke recovery and the new gas cleaning unit were set up
- The customer's previous equipment groundwork, completed in SolidEdge, were integrated into Smart 3D

REALIZING RESULTS

The newly created gas cleaning unit model served as a turning point in modernizing the whole system.

- During the project, rolled steel catalogues (27), pipe catalogues - including plastic pipes and drains (17) – as well as the full ventilation catalogue, were prepared
- More than 20 customer employees were trained to work with the Smart 3D system; several departments now have system set-up specialists
- Design departments have successfully launched the coordination system using different systems of design

ABOUT HEXAGON

Hexagon is a global leader in sensor, software and autonomous solutions. We are putting data to work to boost efficiency, productivity, and quality across industrial, manufacturing, infrastructure, safety, and mobility applications.

Our technologies are shaping urban and production ecosystems to become increasingly connected and autonomous — ensuring a scalable, sustainable future.

Hexagon's PPM division empowers its clients to transform unstructured information into a smart digital asset to visualize, build and manage structures and facilities of all complexities, ensuring safe and efficient operation throughout the entire lifecycle.

Hexagon (Nasdaq Stockholm: HEXA B) has approximately 20,000 employees in 50 countries and net sales of approximately 3.8bn EUR. Learn more at [hexagon.com](https://www.hexagon.com) and follow us @HexagonAB.