

# Future-proof ShuangYuShu Heating Power Plant upgrades Freelance system over the years via Automation Sentinel



Beijing District Heating Group is a corporation involved in public facilities maintenance and residential heating, including domestic hot water and industrial heat. Beijing ShuangYuShu Heating Power Plant is one of its 12 heating units in Beijing. The power plant has a heating capacity of 696MW, covering a total area of 12 million square meters, powered by six 116MW gas-fired hot water boilers. ShuangYuShu Heating Power Plant is currently the largest civil gas heating boiler plant in China, utilizing the latest locally sourced equipment.

Since 1998, ShuangYuShu Heating Power Plant had been using ABB's Freelance distributed control system. In 2002, it embarked on an expansion of the plant whereby it upgraded for the first time the Freelance software — from early V3.2 version to version V6.1. And then, in 2010, ShuangYuShu again conducted a software upgrade via the Automation Sentinel subscription. It replaced the old PC hardware and upgraded Windows® operating system to Windows® XP SP3.

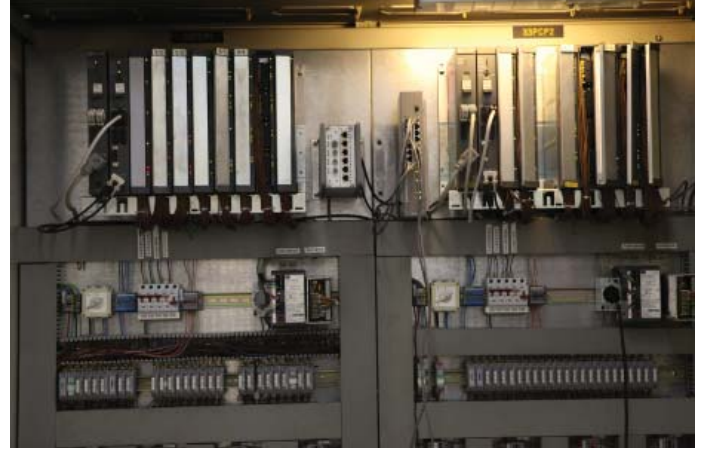
Snapshot of the benefits of Automation Sentinel	
1.	Delivers control system software services to match operational needs
2.	Supports lifecycle management of control system software assets
3.	Lowers system software lifecycle costs and risks through system evolution programs
4.	Extends lifecycle support periods for Freelance software version
5.	Provides comprehensive software support

“We made the upgrade work within a very short time, and system operation was very stable.”

ShuangYuShu Heating Power Plant

In its most recent upgrade, from Freelance V6.1 to V9.1, ABB's technical experts and senior engineers from Beijing USE Science & Technology Co., Ltd. worked together to provide the following:

- Operating system: Windows® XP SP3
- Support for high resolution 1280 x 1024, and an increase in the effective area of graphic display
- Support for operating five (5) faceplates at the same time
- Ability for operators to switch the position of trend chart, and adding the new shortcut toolbar button
- Support for new faceplate that allows operators to set value and perform fine tuning directly
- File list and file content displayed in two windows to make operation more convenient



### Scope of supply

With an Automation Sentinel subscription, ShuangYuShu was able to avail the following benefits:

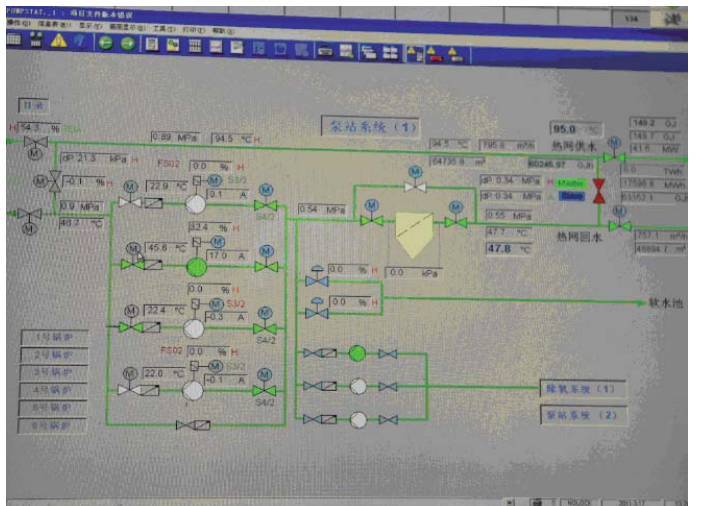
- Free software upgrade service for three years
- Technical support hotline service
- Access to ABB SolutionBank and ABB expert technical platform
- Timely download of the latest product and technical documents
- Other related services



### Customer benefits and feedback

ShuangYuShu Heating Power Plant's personnel gave the following feedback on the upgrading process: “The heating power plant's software upgrade work was very successful! We made the upgrade work within a very short time, and system operation was very stable.”

Beijing USE Science & Technology Co., Ltd., a systems integrator and ABB channel partner that implemented the upgrade project, said that the Automation Sentinel program met the customers' requirements and expectations. Furthermore, it helped ShuangYuShu prepare for and meet challenges in the future.



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