

**NMR PIPETECTOR Scientific Report (No.11)**  
**Anti-Corrosion Application,**  
**FUJIFILM IMAGING Co., LTD. DPE Factory**  
**To stop corrosion and prolong life of water pipe**

**43 Years Old Steel Galvanized Pipe for Drinking Water is Still Working without any problems, such as, water leak or colored water problems**

◆ **Appearance of Building and Installation Place**



**Appearance of the building**



**On outlet pipe of the elevated tank**

◆ **Scientific Installation Results**

It has been 35 years since this building was built, and the water supply pipe made of Steel Galvanized Pipe (SGP), therefore, they were suffering from red colored water. Other equipment such as magnet, electric power and ceramics are washing off corrosion developed inside pipes, and worsen quality of water; therefore, it badly affects the quality of pictures and bad effect on DPE business.

Since it is the DPE factory, **NMR PIPETECTOR** which reduces corrosion to magnetite without washing off corrosion was installed.

**Before the installation** of **NMR PIPETECTOR**, Fe ion content of first water in the morning was 0.5 mg/l and colored of first water in the morning was 15 degrees, however, **6 days after the installation**, Fe ion content decreased to 0.05 mg/l and colored became 2 degrees.

88 months after the installation, the Fe ion content is less than 0.03mg/l, so these data show that the outflow of corrosion was completely stopped. Since that, corrosion has not flowed out any more.

## ◆Results of Water Examinations

	Before installation Nov. 4, 2000	4 days after installation Nov. 20, 2000	6 days after installation Nov. 22, 2000	11 days after installation Nov. 27, 2000	88 Months after installation Mar. 17, 2008	Government regulation (Japan)
Fe ion Content in Water (mg/l)	0.5	0.2	Less than 0.05	Less than 0.05	Less Than 0.03	Less than 0.3 mg/l
Colored (degree)	15	5	2	0	Less than 0.5	Under 2 degrees

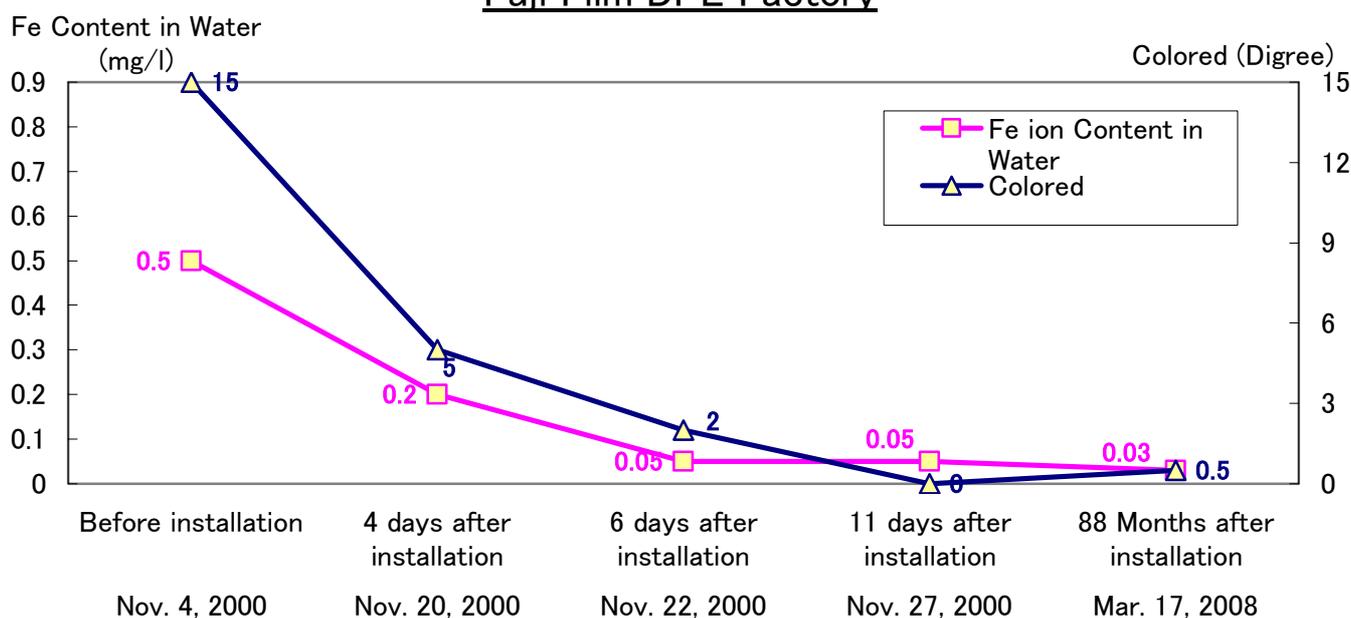
※ Sample water is 500ml of the first water taken in the morning.

## ◆Installation Summary

Address	Choufu City, Tokyo, Japan
Building Summary	DPE Factory (35 years after being built)
Method of Water Supply	Elevated water tank method (Water Supply) Water consumption is 800ton a day
Installation Day	November 16, 2000
Installation Place Number of Installed NMR PIPETECTOR	On outlet pipe of elevated tank (SGP 200mm in diameter) NMR PIPETECTOR PT- 200DS × 1 unit

## ◆Change of Fe ion Content in Water and Colored Digree

### Fuji Film DPE Factory



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