

NMR PIPETECTOR Scientific Report (No.14)
Anti-Corrosion Application,
Shikoku Electric Power Co., Inc.
(Not circulated cold water pipe)

NMR Corporation

To stop corrosion and prolong useful life of water pipe



◆ **Installation Results**

One unit of **NMR PIPETECTOR** PT- 50DS was installed on outlet pipe of the elevated water tank at the power plant on September 5 of 1998.

Before the installation of **NMR PIPETECTOR**, Fe content in water was 1.22mg/l because of corrosion developed in inner pipe. However, it became 0.01mg/l in **2 months after** **NMR PIPETECTOR** was installed, and corrosion reduced to magnetite by consumption of 300L of water per day.

◆ **Installation Summary**

| | |
|---|--|
| Address | Ehime Prefecture, Japan |
| Method of Water Supply | Elevated water tank method (Water Supply) |
| Installation Day | September 5, 1998 |
| Installation Place Number of Installed NMR PIPETECTOR | On outlet pipe of elevated tank (SGP 50mm) NMR PIPETECTOR PT- 50DS ×1 unit |

Fe Analysis Report

To: Saijyou Power Plant
Shikoku Electric Power CO., INC.

Certified Office
Ehime Prefecture Registration No. 29
863 Kitagawa, Saijyou-shi,
Ehime Prefecture 793-0042 Japan
Tel: 0897-55-4040
Yonden Sangyou Co., Ltd., Saijyou Office
Analyst Mr. Takanori Okada

We certify the following results analyzed of the sample material.

| | | | |
|---------------------|------------------|---------------------|----------------------------------|
| How to Get Material | Being brought in | Date | July 3 ~September 4, 1998 |
| Kinds of Material | Drinking water | Details of analysis | Fe ion content in drinking water |

| Details | Date to gather material | Place to gather material (Unit: ppm) | | |
|---------------------------------------|-------------------------|--------------------------------------|---------------------------|----------|
| | | Shikoku Electric Power Co., Inc. | Mr. Yamashita's Residence | |
| | | Kitchen | Kitchen | Bathroom |
| Before the Installation of Pipetector | July 3(Fri.) | 1.22 | | |
| | July 4(Sat.) | | | 0.24 |
| | July 5(Sun.) | | 0.23 | |
| After the Installation of Pipetector | July 6(Mon.) | 6.37 | | |
| | 7 | 1.04 | | |
| | 8 | 1.72 | 0.18 | 0.21 |
| | 9 | 2.02 | | |
| | 10 | 1.86 | | |
| | 13(Mon.) | 5.60 | 0.11 | 0.15 |
| | 14 | 1.57 | | |
| | 15 | 1.60 | | |
| | 16 | 1.61 | | |
| | 17 | 1.84 | | |
| | 21(Tue.) | 12.60 | 0.04 | 0.07 |
| | 22 | 1.11 | | |
| | 23 | 1.41 | | |
| | 24 | 1.64 | | |
| | 27(Mon.) | 8.54 | | |
| | 28 | 0.83 | <0.01 | <0.01 |
| | ※ 29 | 0.84 | | |
| | 30 | 1.40 | | |
| | 31 | 1.36 | | |
| | Aug. 3(Mon.) | 8.31 | | |
| | 21(Fri.) | 0.09 | | |
| | 24(Mon.) | 0.01 | | |
| 28(Fri.) | 0.01 | | | |
| 31(Mon.) | 0.01 | | | |
| Sep. 4(Fri.) | 0.01 | | | |

※Since August 7, water has been used for 30 minutes(300L) a day.

The criteria of the government regulation for drinking water is less than 0.3mg/l.

分析報告書

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住所

分析報告書番号
発行

氏名

計量証明事業所
登録番号

第 環29号

電話

環境計量士 岡田高則

ご依頼を受けました試料について計量した結果を次のとおり証明致します。

| | | | |
|-------|--------------|-------------|---------------------|
| 受付方法 | 採取 <u>持込</u> | 採取または、持込年月日 | 平成 10年 7月 3日 ~ 9月4日 |
| 試料の分類 | 飲料水 | 計量内容 | 飲料水中の鉄分析 |

| 区分 | 採取 月 日 | 採取箇所 (単位:ppm) | | | 定量下限 | 単位 mg/L | 分析方法 |
|------------------|-----------|---------------|-------|-------|------|------------|------|
| | | 四国計測 | | 山下家 | | | |
| | | 台所 | 台所 | 風呂場 | | | |
| 装 取 付 前 | 7/3(金) | 1.22 | | | | | |
| | 7/4(土) | | | 0.24 | | | |
| | 7/5(日) | | 0.23 | | | | |
| 装 取 付 後 | 7/6(月) | 6.37 | | | | | |
| | 7/7(火) | 1.04 | | | | | |
| | 7/8(水) | 1.72 | 0.18 | 0.21 | | | |
| | 7/9(木) | 2.02 | | | | | |
| | 7/10(金) | 1.86 | | | | | |
| | 7/13(月) | 5.60 | 0.11 | 0.15 | | | |
| | 7/14(火) | 1.57 | | | | | |
| | 7/15(水) | 1.60 | | | | | |
| | 7/16(木) | 1.61 | | | | | |
| | 7/17(金) | 1.84 | | | | | |
| | 7/21(火) | 12.60 | 0.04 | 0.07 | | | |
| | 7/22(水) | 1.11 | | | | | |
| | 7/23(木) | 1.41 | | | | | |
| | 7/24(金) | 1.64 | | | | | |
| | 7/27(月) | 8.54 | | | | | |
| | 7/28(火) | 0.83 | <0.01 | <0.01 | | | |
| | 7/29(水) | 0.84 | | | | | |
| | 7/30(木) | 1.40 | | | | | |
| | 7/31(金) | 1.36 | | | | | |
| | 8/3(月) | 8.31 | | | | | |
| | 8/21(金) | 0.03 | | | | | |
| 8/24(月) | 0.01 | | | | | | |
| 8/28(金) | 0.01 | | | | | | |
| 8/31(月) | 0.01 | | | | | | |
| 9/4(金) | 0.01 | | | | | | |

・8/7 から連続ブロー中
・水道法による水質基準 0.3mg/L 以下