◎ KIA MOTORS Co., Ltd.

 Location of installation: 700 Naebang-Dong, Seo-Gu, Kwangjoo city, Kwangjoo 1 factory. Boiler room in KIA MOTORS Co., Ltd.
Type of the boiler: Water tube packaged boiler 10T/H

-Installed date: 11th – 12th Oct, 2002

-Type of USP: USP-1000 (I set)

-Date of observation: 24th Feb, 2003 (14:00)

-Operation period: 4 months 12days

O Method

- Before the installation of USP, the presence of the scale in the boiler was examined and it was taken photos in detail.
- Several texts were marked with a stick on the scale-accumulating drum wall to confirm the scale prevention effect by the USP. The changes in the drum were examined with unaided eyes on Feb. 24, 2003. To record and compare such changes between 'before' and 'after' were photographed.

© Result and Interpretation

- Prior to the USP installation, the scale layer on the wall was about 2mm thick. It was confirmed that this scale layer was mostly removed when the boiler door was opened to evaluate the USP effect 4 months later.
- It was also observed that the letters marked on the wall were survived. This indicates that scale has not been formed and accumulated on the wall for the last four months since the USP was initially installed in this boiler system.
- From these observations, it is possible for us to conclude that the USP is an excellent method to remove preexisting scale and/or to prevent the accumulation of scale on the boiler wall, giving rise to substantial energy saving. It is no doubt that the USP is able to significantly reduce environmental pollution.

