

Onsan August 6th 2008.

To:

TUV auditor

CC:

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Data recording system failure

Obj.: to improve data recording system

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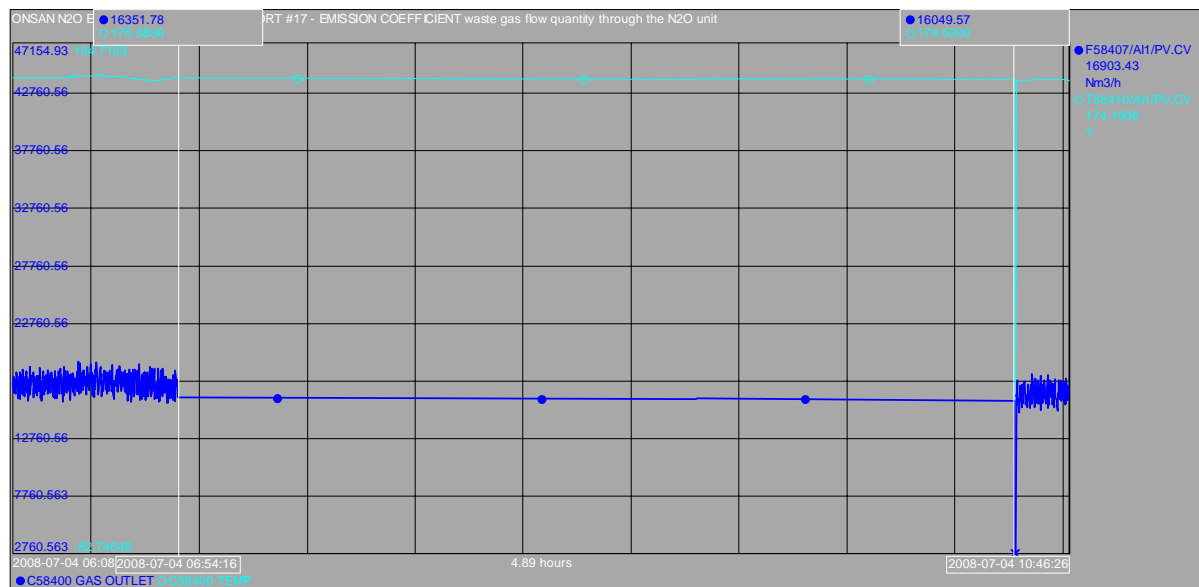
Back ground :

According to local government environmental law, NOx value and waste gas flow rate at the N2O stack are continually transmitted to local government agency as a part of the Tele Monitoring System (TMS) since July 1st 2007.

All operating parameter at the stack gas (NOx, temperature, flow rate, CO and O2) are collected from filed instrument into data recording system and then distributed data to DCS and to Korean Government.

Data Recording System Failure :

Data recording system was failed on July-4th 2008 for 4 hours (06:55 AM to 10:48 AM) because temperature in main board was increased due to damage of CPU (Central Processing Unit) fan .



Data correction

According to Data Handling Protocol, the maximum value of every measurement was taken with defined operating conditions during failure of data recording system as conservative approach.

Action plan :

1. Replaced fan and upgraded display board on July-22nd 2008.
2. Direct transfer field instrument value to DCS (CO and O2) to prevent N2O unit shut down → done