

Tailor-made Program on Environmental Management Held in Qatar

1. Background to the Seminar

In FY2007, the JCCP Training Department stepped up its efforts to promote Expert Service (ES) programs that are specially tailored to meet the needs of each country, in line with the country-specific action program for major oil-producing countries, which JCCP announced in FY2006. A number of countries readily responded to this proposal, and JCCP has so far implemented four ES programs in three countries. They included seminars on “Process Control” in Russia, “Refinery Maintenance Management” in Mexico, “Energy Saving at the Refinery” in Kuwait, and “Advanced Process Control,” also in Kuwait. The recent seminar on “Environmental Management” that was held in Qatar became the fifth ES program to be implemented under the new scheme.

As requested by Qatar Petroleum (QP), we implemented a seminar on Japan’s environmental management technologies, from December 2 to 6, 2007. The seminar team was composed of Mr. Keisuke Matsukawa from Chiyoda Corporation, Mr. Hiroaki Igarashi from JGC Corporation, and Mr. Tetsuji Kubota and myself, Kazuyoshi Kamijyo, from the JCCP Training



Seminar participants

Department.

2. Overview of the Seminar

The seminar was implemented over a period of 5 days. On the first day, Mr. Kubota and I gave a brief lecture on “Introduction of JCCP,” with the aid of a DVD presentation and other supplementary materials, followed by lectures on “Overview of Japan’s Oil Industry,” “Heavy Oil Upgrading,” and “Clean Fuel Technologies.” On the second day, we lectured on “Refinery Energy Saving,” “New Energy Strategies in Japan,” and “Overview of Environmental Management in Japan.” On the third day, Mr. Igarashi gave a feature presentation on “Air Pollution Management in Refineries,” and spoke

in detail about technologies for the management and dispersion of SO_x, NO_x, and other particulate substances. On the fourth day, Mr. Matsukawa gave a presentation on “Soil and Groundwater Treatment,” and discussed soil and groundwater contamination, regulations concerning oil content, remediation technologies, soil surveys, and recycling projects. On the fifth day of the seminar, I lectured on “Future Environmental Management Trends.”

Fifteen participants attended the seminar, with a high rate of attendance, from the first to last day of the seminar. All participants filled out an evaluation form at the end of the seminar, and indicated that the seminar was highly beneficial. Many also indicated that they would like to participate in a regular



Scenes of the seminar

course in Japan, in the future.

The participants took an active part in the seminar, asking questions and sharing views with each other. The lecturers interpreted this to be an indication of their positive commitment to gaining the most from the seminar.

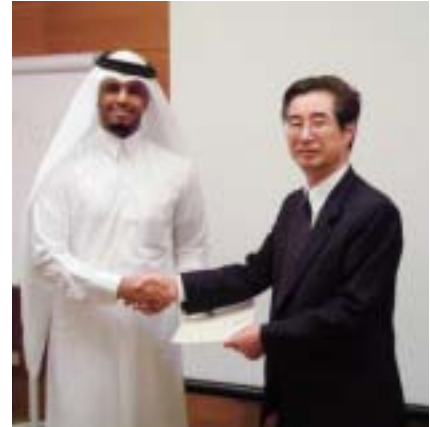
3. Refinery Visit

After completing the seminar, the seminar team visited QP's Mesaieed Refinery, where we exchanged information with persons in charge of environmental management at the refinery, and toured the refinery facilities and control room. The spacious control room boasted a modern console-type

DCS, which was operated by a small number of operators and compared favorably with control rooms in Japan's refineries.

4. Summary

The successful implementation of the seminar was made possible largely through the effort of Mr. Sheikh Hamad Saoud Hamad Al-Thani and staff members of the QP Head Office, and Mr. Abdulla Ismail Ahmad Hassan Al-Hamadi, who generously acted as our counterpart. We wish to also acknowledge Mr. Ahmed Mohd Qassim, HSE Manager, and other members of the Mesaieed Refinery for their cooperation



Presentation of completion certificates

and valuable exchange of information. Thank you all very much.

<by Kazuyoshi Kamijyo, Training Dept.>