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INFORMATION ON TRAINING COURSE  
IN  
ELECTRIC POWER ENGINEERING  
FOR MIDDLE EAST COUNTRIES  
1980—81

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THE GOVERNMENT OF JAPAN

国際協力事業団		
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INFORMATION ON TRAINING COURSE IN  
ELECTRIC POWER ENGINEERING  
FOR MIDDLE EAST COUNTRIES  
IN 1980 - 81  
BY THE GOVERNMENT OF JAPAN

I. Introduction

The Training Course in Electric Power Engineering for Middle East Countries in fiscal 1980 (April 1, 1980 - March 31, 1981) will be conducted by the Government of Japan as part of its Technical Cooperation Programmes for developing countries with a view to contributing to their upgrading of knowledge and technique in this field, and thus to promoting friendly relations between them and Japan.

Arrangements for conducting the course are administered by Japan International Cooperation Agency (hereinafter referred to as JICA), commissioned by the Government of Japan to execute technical cooperation programmes in collaboration with related organizations.

II. Purpose

The purpose of this course is to introduce to participants electric power development projects adopted by the Government of Japan and Japanese electric power companies, the management of electric power industry in Japan and other related items which will be helpful for better understanding of the theme through lectures and observations.

III. Programme

The programme of the course is as attached in the Appendix.

IV. Qualifications

Applicants are to:

- (1) be nominated by their government in accordance with the procedures mentioned in VIII (1) below,
- (2) be the electrical and/or mechanical engineers or civil engineers who are presently in the employment of governmental institutions or private companies in the field of electric power supply,

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- (3) be the technical college graduates or the equivalent and have more than five (5) years of practical experience,
- (4) be between thirty (30) and forty-five (45) years of age,
- (5) have a sufficient command of spoken and written English, and
- (6) be healthy enough to undergo the course of training.

V. Duration

From October 2, 1980 to November 29, 1980.

VI. Language

The course will be conducted in English or through interpretation of Japanese into English.

VII. Facilities and Institutions

- (1) Overseas Electrical Industry Survey Institute, Inc.  
Uchisaiwai Bldg.,  
4-2, Uchisaiwai-cho 1-chome,  
Chiyoda-ku, Tokyo, 100 Japan
- (2) The Public Utilities Department,  
Agency of Natural Resources and Energy,  
Ministry of International Trade and Industry,  
Kasumigaseki, Chiyoda-ku, Tokyo, JAPAN
- (3) Electric Power Development Co., Ltd.  
No.1, Marunouchi 1-chome, Chiyoda-ku, Tokyo JAPAN
- (4) The Tokyo Electric Power Co., Inc. (TEPCO)  
No.9, Uchisaiwaicho 2-chome, Chiyoda-ku, Tokyo, JAPAN

VIII. Procedures for Application

- (1) The government desiring to nominate applicants for the course should fill in and forward six (6) copies of the Nomination Form (Form A-3) for each applicant to the Government of Japan through the Embassy<sup>1</sup> of Japan not later than August 15, 1980.
- (2) The Government of Japan will inform the applying government whether or not the nominee is acceptable to the course not later than September 2, 1980.

IX. Country Report

Participants are required to submit a copy of their latest annual report (recent situation of their electric industry, power demand and power development plan) on their arrival in Japan.

X. Allowances and Expenses to be borne by the Government of Japan in accordance with JICA rules and regulations

- (1) Economy-class air ticket between the international airport designated by JICA and Tokyo.
- (2) An allowance of ¥3,750 per diem and other allowances for outfit, book and literature transport charges in addition to free lodging and breakfast at JICA Training Centres.
- (3) Free medical care for participants who become ill after arrival in Japan.
- (4) Expenses for JICA study tour.

XI. Accommodation

Tokyo International Centre (TIC) will be available for participants studying in and around Tokyo.

In case no room is available at TIC, JICA will arrange accommodation for participants at other appropriate places.

Tokyo International Centre, JICA  
No.42-11, Honmura-cho, Ichigaya,  
Shinjuku-ku, Tokyo, 162 JAPAN  
Tel.: Tokyo (03) 267-2311

XII. Certificate

Participants who have successfully completed the course will be awarded a certificate by JICA.

XIII. Other Information

- (1) Participants are required to arrive in Japan on the date designated by the Government of Japan after confirmation of acceptance as mentioned in VIII (2) above. However, the date will be finally confirmed through the air-ticket sent to the participants.

- (2) On arrival at New Tokyo International Airport at Narita, participants are requested to follow the under mentioned arrival procedure.
- i) When they have completed quarantine, immigration, and customs clearance procedure, they will go to one of the Meeting Service counters located in the North and South Wings of the arrival terminal.
  - ii) Bus tickets to Tokyo City Air Terminal (TCAT) will be provided at the counter and a service staff will help them to the airport bus terminal.
  - iii) Airport bus service to TCAT will take approximately 90 minutes.
  - iv) Upon arrival at TCAT, JICA designated travel agents will meet them and will take them directly to one of the training centres, or if necessary, to a hotel where reservations will be made for them by JICA. (Agents will give them information on their schedule and will answer their questions.)
  - v) The Meeting Service counter will close at 10 p.m.. In case they arrive after 10 p.m., instead of going to the Meeting Service counter, they will go to the Arrival Information counter of Japan Air Lines (JAL) in the North Wing of the arrival lobby. JAL attendants will direct them to the TCAT airport bus. At TCAT, a travel agent will be waiting for them.

Necessary care of the participants, thereafter, will be taken by JICA throughout the duration of the course.

- (3) Participants are required to observe strictly the course schedule.
- (4) Application to change the training subject or extend the training period will not be accepted.
- (5) Participants are strongly requested not to bring any member of their family. The monthly living allowance is sufficient only to cover normal living expenses for one person. No allowance of any kind will be paid for their dependents. It should also be noted that no arrangements will be made by JICA for their accommodation.
- (6) For administrative uses, participants are requested to bring five (5) copies of their photograph (passport size).
- (7) Participants are requested to follow the return trip schedule designated by JICA.

- (8) The mean monthly temperatures in Tokyo are as given below.  
Participants are advised to prepare appropriate clothes.

<u>Month</u>	<u>°F</u>	<u>°C</u>
October	61.5	16.4
November	54.3	11.9

- (9) Further information concerning the course is available at the following address:

Second Training Division,  
Training Affairs Department,  
Japan International Cooperation Agency  
P.O. Box 216, Shinjuku Mitsui Bldg.,  
No.1, Nishi-Shinjuku 2-chome, Shinjuku-ku,  
Tokyo, 160 JAPAN  
Tel.: (03) 346-5143  
Cable address: JICAHDQ TOKYO  
Telex: J22271

Appendix

TENTATIVE PROGRAMME

<u>Date</u>	<u>Curriculum</u>
Oct. 2 (Thu.)	Arrive in Japan
6 (Mon.)	Orientation
10 (Fri.)	
13 (Mon.)	Programme Meeting Lecture: Present Situation of Electric Power Industry of Japan
14 (Tue.)	Lecture: Planning of Electric Power Supply Capability in Japan Lecture: Planning of Electric Power Development in Japan
15 (Wed.)	Lecture: Transmission and Distribution System in Japan Visit: Central Load Dispatching Center of Electric Power Industry
16 (Thu.)	Visit: Yokohama Shipyard of Mitsubishi Heavy Industry Ltd. (Diesel Engines)
17 (Fri.)	Visit: Tsurumi Factory of Tokyo Shibaura Electric Co., Ltd. (Steam and Hydraulic Turbines, Generators, Transformers and Controlling Equipment)
20 (Mon.)	Lecture: Orientation for TEPCO Programme Outline of the Company (TEPCO): Service Area, Organization, etc.
21 (Tue.)	Lecture: Basic Policy in Developing Power Sources Expansion Planning of the Power Systems
22 (Wed.)	Lecture: Standard Designs for Various Substations and Control Over Construction Procedures of them Operation & Maintenance of Substations Visit: A Underground Substation in Tokyo



<u>Date</u>		<u>Curriculum</u>
23 (Thu.)	Lecture:	Designing, Construction and Maintenance of both Overhead and Underground Cable Transmission Lines
24 (Fri.)	Lecture:	Distribution Systems and Facilities Safety Measures in Construction & Mainpulation
27 (Mon.)	Lecture:	Fuels Available for the Thermal Power Stations at Present and in the Future
	Visit:	Shin-Tokyo Thermal Power Station (482MW)
28 (Tue.)	Lecture:	Designing of Foundation for Thermal Power Station  Construction Technique and Control of Construction Schedule of the Thermal Power Station
29 (Wed.)	Visit:	Fukushima 1st Nuclear Power Station (4,696MW)
30 (Thu.)	Visit:	
31 (Fri.)	Visit:	Hitachi Works of Hitachi Limited (Gas Turbines & Steam Turbines)
Nov. 4 (Tue.)	Lecture:	Designing & Construction of Thermal Power Plant: Plant System and each Equipment  Construction Schedule of Thermal Power Station  Tests and Trial Operation Leading to Commercial Running of Thermal Power Plants
5 (Wed.)	Lecture:	Operation of Thermal Power Station: Higher Efficiency and Quicker Response to Changes of Load  Maintenance on Thermal Power Station

<u>Date</u>		<u>Curriculum</u>
Nov. 6 (Thu.)	Practical Training:	How to Operate Power Plant in Various Situations by Using of 350 & 1,000MW Units Simulators
7 (Fri.)		Ditto
10 (Mon.)	Lecture:	Present Situation of Research and Development of New Technology for Electric Power Facilities
	Visit:	Ohtsuka Branch Office being set up as a Energy-Saving Building
11 (Tue.)	Lecture:	Management Over the Power Systems: Control of Frequency, Voltage, Power Flow, etc.
	Visit:	Control Load Dispatching Office
12 (Wed.)	Visit:	Internal Combustion Power Plant and Distribution Lines in an Isolated Island
13 (Thu.)		Ditto
14 (Fri.)	Meeting:	Evaluation and Reviewal on the TEPCO Training Course
17 (Mon.)	Visit:	Leave Tokyo for Nagoya NGK Insulators Ltd. (Electrical Insulators and Bushing Shells, Line Hardwares) Leave Nagoya for Kyoto
18 (Tue.)	Visit:	Nisshin Electric Co., Ltd. (Transformers, Capacitors, Circuit Breakers and Controlling Equipment)
19 (Wed.)	Visit:	Sumitomo Electric Industries, Ltd. <sup>加口</sup> (Electric Power Cable and Controlling Cable)
20 (Thu.)	Visit:	Leave Kyoto for Kakogawa <sup>(<u>榎古川</u>)</sup> Takasago Factory of Mitsubishi Heavy Industry, Ltd. (Steam, Hydraulic and Gas Turbines, Generators) Leave Himeji for Hiroshima <sup>女臣路と西明石の間。</sup>
21 (Fri.)	Visit:	Higashi Hiroshima Substation of Chugoku Electric Power Co., Ltd. (750MVA x 1, 300MVA x 2, 150MVA x 1)

<u>Date</u>	<u>Curriculum</u>
Nov. 22 (Sat.)	Leave Hiroshima for Tokyo
24 (Mon.)	Report Making
25 (Tue.)	Meeting at Overseas Electrical Industry Survey Institute, Inc.
26 (Wed.)	Closing Ceremony
29 (Sat.)	Leave Japan

\* Unless mentioned, Saturdays and Sundays are free.

