

**BASIC DESIGN STUDY REPORT
ON
THE PROJECT FOR REHABILITATION
OF
THE BAJINA BASTA
PUMPED STORAGE HYDROELECTRIC POWER PLANT
IN
THE FEDERAL REPUBLIC OF YUGOSLAVIA**

MARCH, 2002

**JAPAN INTERNATIONAL COOPERATION AGENCY
YACHIYO ENGINEERING CO., LTD.**

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PREFACE

In response to a request from the Government of the Federal Republic of Yugoslavia, the Government of Japan decided to conduct a basic design study on the Project for Rehabilitation of the Bajina Basta Pumped Storage Hydroelectric Power Plant and entrusted the study to the Japan International Cooperation Agency (JICA).

JICA sent to Yugoslavia a study team from November 21 to December 17, 2001.

The team held discussions with the officials concerned of the Government of Yugoslavia, and conducted a field study at the study area. After the team returned to Japan, further studies were made. Then, a mission was sent to Yugoslavia from February 20 to March 6, 2002, in order to discuss a draft basic design, and as this result, the present report was finalized.

I hope that this report will contribute to the promotion of the project and to the enhancement of friendly relations between our two countries.

I wish to express my sincere appreciation to the officials concerned of the Government of the Federal Republic of Yugoslavia for their close cooperation extended to the teams.

March, 2002

A handwritten signature in black ink, reading '川上隆朗' (Takao Kawakami), is positioned above a horizontal line.

Takao Kawakami

President

Japan International Cooperation Agency

March, 2002

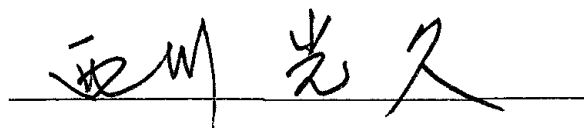
Letter of Transmittal

We are pleased to submit to you the basic design study report on the Project for Rehabilitation of the Bajina Basta Pumped Storage Hydroelectric Power Plant in the Federal Republic of Yugoslavia.

The study was conducted by Yachiyo Engineering Co., Ltd. under a contract to JICA, during the period from November, 2001 to March, 2002. In conducting the study, we have examined the feasibility and rationale of the project with due consideration to the present situation of Yugoslavia and formulated the most appropriate basic design for the project under Japan's grant aid scheme.

Finally, we hope that this report will contribute to further promotion of the project.

Very truly yours,

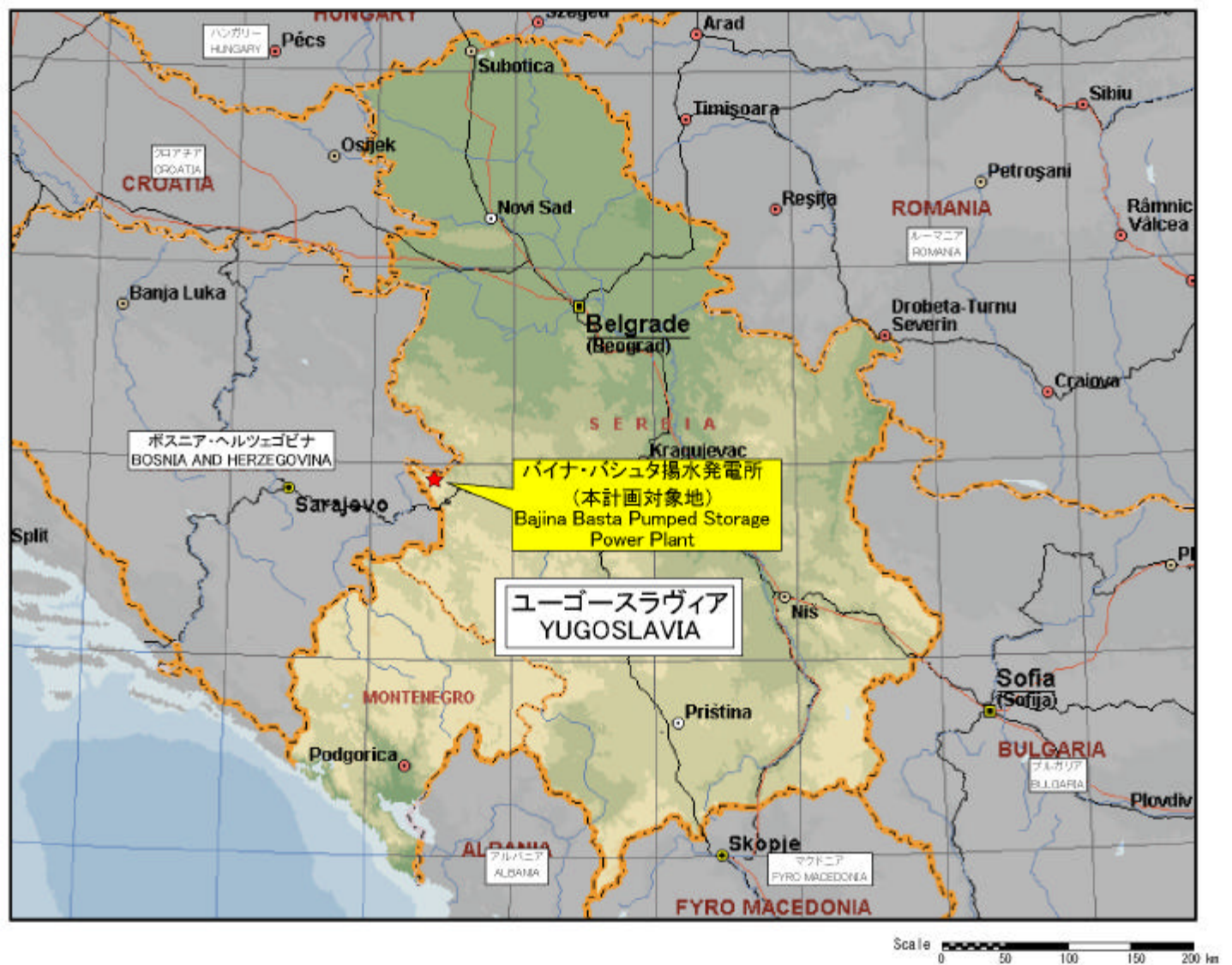
A handwritten signature in black ink, appearing to read '西川 光久' (Nishikawa Mitsuhisa), is written over a horizontal line.

Mitsuhsa Nishikawa

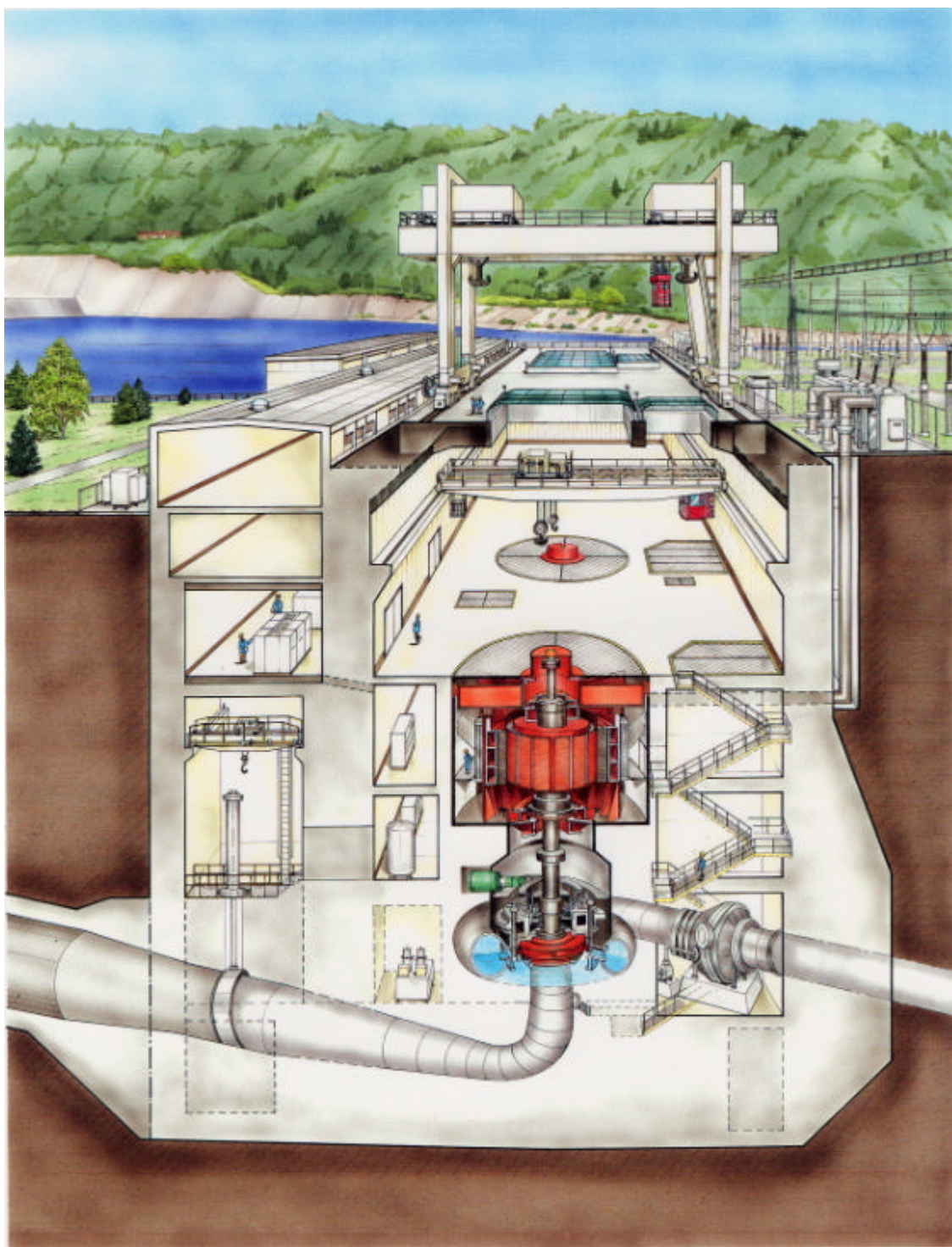
Chief Consultant

Basic design study team on the
Project for Rehabilitation of the Bajina Basta
Pumped Storage Hydroelectric Power Plant in
the Federal Republic of Yugoslavia

Yachiyo Engineering Co., Ltd.



ユーゴスラヴィア国全図
MAP OF YUGOSLAVIA



THE PROJECT FOR REHABILITATION
OF
THE BAJINA BASTA PUMPED STORAGE HYDROELECTRIC POWER PLANT
IN
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ABBREVIATIONS

BHN	Basic Human Needs
DHP	Drina Hydro-Electric Power Company
EAR	European Agency for Reconstruction
EBRD	European Bank for Reconstruction and Development
EPS	Electric Power Industry of Serbia
EU	European Union
E/N	Exchange of Notes
FMIER	Federal Ministry of International Economic Relations
GDP	Gross Domestic Product
GNP	Gross National Product
HPP	Hydro Power Plant
IEC	International Electrotechnical Commission
ISO	International Organization for Standardization
JEAC	Japan Electric Association Code
JEC	Japanese Electrotechnical Committee
JEM	Standards of Japan Electrical Manufacturer's Association
JICA	Japan International Cooperation Agency
JIS	Japanese Industrial Standards
MHE	Ministry of Health and Environment
MIER	Ministry of International Economic Relations
MME	Ministry of Mining and Energy
M/D	Minutes of Discussions
ODA	Official Development Assistance
O&M	Operation and Maintenance
OJT	On the Job Training
P/S	Power Stations
WB	World Bank