

APPENDIX B

TERMS OF REFERENCE FOR THE PRESENT WORK

**KHMELNITSKY 2/ROVNO 4 NUCLEAR POWER PLANTS COMPLETION:
UPDATING OF THE EXISTING ENVIRONMENTAL IMPACT
ASSESSMENTS**

TERMS OF REFERENCE (final version as from 01.10..97)

I INTRODUCTION

On 19 December 1995, representatives of the G7 countries, the Commission of the European Communities and the Government of Ukraine signed a Memorandum of Understanding on the closure of the Chernobyl Nuclear Power Plant. The completion and safety upgrading of Rovno 4 and Khmelnytsky 2 was identified as one of the priority projects of the Energy Investment Program to be financed through loans. The European Commission (EURATOM loan facility) and the EBRD ("the lenders") were asked by Goskomatom ("the beneficiary") to provide such loans. The lenders have agreed a common approach for the preparation of their loans, in particular regarding the studies which are necessary to assess the eligibility of the project. The TACIS programme is financing some of these studies.

One of these studies is the Environmental Impact Assessment (EIA), covering radiological and other aspects and demonstrating that the potential effect of the completion of these units would be compatible with European Union standards and practices regarding environment and public protection.

The EC commissioned the preparation of the required EIAs in 1996 with the reports circulated to the lenders for consultation in June 1997. The EIAs have been prepared in connection with the Project of the Ukrainian national power utility - Goskomatom - to complete and upgrade Rovno 4 and Khmelnytsky 2 NPPs. In addition to providing an assessment of the environmental impacts, the EIAs were to provide an Environmental Action Plan (EAP) and an input to the public consultation required by the lenders.

The overall objective of the proposed work is to update the existing EIAs taking into account the result of discussions between the partners, the results of ongoing public consultation, comments received by independent reviewers, and additional data identified as relevant since the EIAs were originally completed.

2 BENEFICIARY

The Beneficiary is Goskomatom of the Ukraine and the beneficiary nuclear power plants are Rovno 4 and Khmelnytsky 2.

3 OBJECTIVE

The main objective is to update the environmental impact assessments in order to meet the requirements of the lenders including the need to take account of comments received on the existing texts. This assessment should also identify what actions, if any, will be necessary to ensure that the operation of these units will be compatible with European Union standards and practices. It will cover, in particular but not exclusively, radiological aspects and will consider both normal operational conditions and emergency situations.

In addition, the chosen consultant will provide a brief annex indicating the magnitude of environmental impacts that could be associated with a second catastrophic accident at the Chernobyl NPP, assuming that Unit 3 remains operational and that the fire-damaged Unit 2 is recommissioned.

The overall objective will be met by a programme of work in two phases. The objective of the first phase will be to update the existing EIAs and to identify priority areas where further information may be required for technical reasons or as a consequence of further consultation. It will result in a report identifying the priority areas for additional work and outlining a way forward.

The objective of the second phase is the production of revised versions of the EIAs and development and production of Environmental Action Plans for the two projects.

4 PROJECT DESCRIPTION

4.1 *Present situation*

The initial environmental impact assessments (EIAs) were completed by SRTI in the first half of 1997 in connection with the project of the Ukrainian national power utility - Goskomatom - to complete and upgrade Rovno 4 and Khmelnytsky 2.

Comments obtained have made it necessary to perform some additional work to revise the EIAs to meet the requirements of EBRD and Euratom.

4.2 *Scope of work*

The project will consist of the following tasks

- (1) Taking into account additional relevant data and updating the K2 and R4 EIAs to meet the requirements of EBRD and Euratom, and the approval of Goskomatom and the Ukrainian Regulatory Authority.

- (2) Preparation of a set of recommendations which can be included in an Environmental Action Plans (EAPs) which would be covenanted as a part of the financial and legal agreements of the projects. These EAPs may include both some physical measures and management provisions.
- (3) Ensuring that the scope of the updated EIAs reflects public comments, as stated at the rescoping meeting in Kiev on 2 September 1997 and in correspondence and other communications from interested parties.
- (4) Ensuring that the updated EIA's include a discussion of the option of maintaining the Chernobyl NPP in operation.
- (5) Attendance at public meetings and other meetings with interested parties and advising Goskatom on the answers to be provided to comments made on the updated EIAs. Support during the Public Consultation exercise.
- (6) Presenting the results of work to the lenders and, where required, to other interested parties with the prior approval of the EC.

In carrying out these tasks the consultant will take full advantage of relevant existing documentation and seek to address the concerns of organizations and individuals relating to the tasks defined above.

The consultant shall also ensure presentation of the work when required during the loan approval procedures to the lenders and other relevant parties.

5 WORKING METHODS

The EC will issue a contract to the Consultant who may subcontract work to a local subcontractor.

The Consultant will work with the Counterpart's representatives in accordance with the following conditions.

5.1 Consultant

The Consultant will be an internationally acknowledged company from the EU with the skills necessary to cope with this project.

In addition to providing technical experts, the Consultant will be in charge of

- I. the relations with the Counterpart and the EC;
- II. establishing the working schedule;
- III. monitoring contract related activities, and
- IV. reporting.

5.2 Counterpart

The Counterpart is the person designated by the Beneficiary to act as interlocutor with the Consultant. The Counterpart is the Department of Development and Investment of Goskomatom.

5.3 Local sub-Contractor

The Consultant is invited to sub-contract part of its work under its responsibility. The objective of sub-contracting is to make the best utilization of local capacities and to allow for the transfer of know-how.

The Beneficiary cannot be the sub-Contractor.

For the present project a possible sub-Contractor is

**The State Scientific Engineering Center of Control Systems
and Emergency Response**

Mr. L. L. Litvinsky
Arsenalnaya, 9/11
KIEV 252011, UKRAINE
tel. + 380 44 294 99 20
fax + 380 44 294 85 70

5.4 Working premises

The usual place of work in Ukraine are the referenced NPPs' and/or the Beneficiary's offices if needed.

5.5 Working language

The working language of the contract is English. The updated EIAs will be prepared in English and Ukrainian, and so will the final revised EIAs and EAPs. Knowledge of Ukrainian language by the Consultant would be appreciated.

6 TIME SCHEDULE

The work will be completed over a seven month period from signature of the contract as follows.

By week two. Agree programme of work, collection of background information, identification of data sources, QA etc.

By week six. Updated versions of the EIAs (already including the "Chernobyl remaining open option" annex), and interim report.

By week ten. Discussion of interim report and agreement on a programme of work for the remaining period.

By week twenty. Production of revised EIAs for both sites along with final Environmental Action Plans.

As from week twenty to week twentyeighth. Support to the Public Consultation exercise.

7 ORGANIZATION OF WORKS

Personnel required to complete the work comprises:

- one manager from Ukrainian side;
- two assistants to the manager;
- one secretary;
- one interpreter and oral/written translations when needed;
- Western European consultants.

8 REPORTING

For the performance of these activities the following reports will be required from the Consultant:

- I. an interim report (in English) plus updated versions of the EIAs (in Ukrainian and English) within six weeks of signing the contract
- II. progress reports monthly (in English)
- III. final report (in English) plus updated EIAs and associated EAPs (ten copies in English and ten copies in Ukrainian)