SPECIAL NUCLEAR SAFETY PROJECT FICHE

1. Basic information

1.1 Désirée Number: RO 01.10.01

1.2 Title: Nuclear Safety Regulatory Regime Consolidation

1.3 Sector: IN & EN

1.4 Location: Romania

2. Objectives:

2.1 Overall objective:

The aims of this Project are, principally, the technical consolidation of CNCAN capabilities related to nuclear safeguards and physical protection. There is also an activity to draft a Quality Assurance manual according to ISO 9001 standards for implementation by CNCAN.

2.2 Project purpose:

The purpose of the project is to improve the efficiency of the Nuclear Safety Regulatory Regime and to improve safety levels in Nuclear Power Plants (particularly as regards design safety, on-site assistance and equipment supplies).

2.3 Accession Partnership and NPAA priority:

AP 1999 (medium-term priority):
− Strengthen regulatory structures for nuclear safety and radiation protection

NPAA 2000 (short-term priorities):
− Finalisation of the implementation of the EU legislative acquis in the field of nuclear safety, nuclear energy activities, management of radioactive waste and spent fuel;
− Finalisation of reviewing process of the legislation and regulation in the field of CNCAN competence, such as: nuclear safety, safeguards, physical protection, radioactive waste management;
− Continuing the consolidation process for technical independence of CNCAN.

The recent Council Report on Nuclear Safety in the Context of Enlargement of June 2001 has identified, for Romania, as a Type I recommendation the following:

• Romania should, as a short term priority :

  • Regarding the capability and resources of the Regulator: Develop and implement an action plan for the regulatory body (CNCAN), including in particular a training programme and technical support, in order to strengthen the independent assessment capability of CNCAN, its inspection practice and emergency preparedness organisation. To that effect the resources of CNCAN should be increased.

3. Description of the Project:

The Project is to be executed in the form of three components:

Component 1: Technical Assistance for elaboration of the working procedures in support of an internal guide in the area of Quality Assurance
Component 2: Review and elaboration of new national regulations and norms in the nuclear field, according to the European Union requirements

Component 3: Assistance in programme implementation, including, in particular monitoring that time schedules are stringently met.

4. Institutional framework:

The beneficiary of the project is the Romanian Nuclear Regulator.

5. Detailed budget (in M €)

<table>
<thead>
<tr>
<th>Project</th>
<th>Investment Support</th>
<th>Institution Building</th>
<th>Total Phare (= I + IB)</th>
<th>National Co-financing</th>
<th>IFI</th>
<th>TOTAL</th>
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6. Implementation arrangements

The decentralised implementation scheme (DIS) with ex-ante Commission control will be followed for the Project.

The Implementing Agency will be the Central Finance and Contracts Unit (CFCU) of the Ministry of Public Finances, which will retain overall responsibility for the implementation of the programme, including: approval of tender documents, evaluation criteria, evaluation of offers, signature of contracts, authorisation of invoices.

The Implementing Authority will be the Romanian Nuclear regulator (CNCAN), which will be responsible for the operational management of the project: preparation of terms of reference, of tender documents, of evaluation criteria, of evaluation of offers, of contracts and of invoices for payment.

6.1 Implementing Agency: CFCU, Ministry of Finance
Jeana Buzduga, Director
36-38 Mendeleev, 4th floor, sect1, Bucharest
tel: 315.35.31/313.66.30
fax: 315.35.36/312.42.08

6.1.1 Implementing Authority: Romanian Nuclear regulator (CNCAN)
Lucian BIRO, President
14 Libertatii Blvd, Bucharest – 5
Phone: +40 (1) 410 0572
Fax: +40 (1) 337 3887
E-mail: lucian.biro@cncan.ro

6.2 Beneficiary: Romanian Nuclear regulator (CNCAN).

6.3 Twinning: not applicable

6.4 Non-standard aspects: Due to the specific character of the project, a significant part of the work under this project will have to be contracted to Technical Safety Organisations. Non standard aspects, in line with the "new rules for contracts
in the field of nuclear safety” COM(2000)493 final, might arise.

6.5 Contracts: Three different PHARE contracts are expected.

7. Conditionality and sequencing

The Project is required to establish a link with a regulatory assistance project funded under the PHARE multi-country programme 1998 providing assistance to CNCAN (project RO/RA/02) to avoid duplication and to co-ordinate organisation of training seminars, technical visits etc, for the two projects.

The project will be sequenced as follows:

1 Q. 2002: Start of tendering
2 Q. 2002: Start of project activities
3 Q. 2004: Completion
1. Basic information

1.1 Désirée Number: RO 01.10.02

1.2 Title: Support to the Romanian Nuclear Regulatory Authority (CNCAN) in the licensing review of Fire Protection, Overpressure Protection of Reactor Primary Circuit and Main Steam Line Design Safety Issues in Cernavoda 1-NPP.

1.3 Sector: IN & EN

1.4 Location: Romania, Cernavoda 1-NPP

2. Objectives:

2.1 Overall objective:

This project is intended to support CNCAN in its licensing review of certain specific safety issues for Cernavoda 1 NPP. These include, the overall fire protection programme, fire hazard analysis and potential fire effects; improving measures for fire protection; water hammer safety analysis in the special safety systems (Emergency Core Cooling and Shutdown System no. 2), overpressure protection of the Reactor Primary Circuit; and, main steam line stress analysis issues.

2.2 Project purpose:

Need to receive technical and methodological support during its independent review process of safety assessments submitted to CNCAN by the Utility.

2.3 Accession Partnership and NPAA priority:

The recent Council Report on Nuclear Safety in the Context of Enlargement of June 2001 has identified, for Romania, as a Type I recommendation the following:

Romania should, as a short-term priority (Type II) recommendation:

Regarding fire and seismic hazards assessment of Cernavoda NPP: Measures to complete the fire hazards analysis and the seismic hazards analysis based on seismic characterisation of the site, including a comprehensive regulatory review of these analyses in compliance with widely applied practices within the EU.

3. Description of the Project:

This project is intended to support CNCAN in its licensing review of certain specific safety issues for Cernavoda 1 NPP. These include, the overall fire protection programme, fire hazard analysis and potential fire effects; improving measures for fire protection; water hammer safety analysis in the special safety systems (Emergency Core Cooling and Shutdown System no. 2), overpressure protection of the Reactor Primary Circuit; and, main steam line stress analysis issues.
4. Institutional framework:

The project would support the work of the Romanian Nuclear Regulatory Authority (CNCAN). Project is linked to the Cernavoda NPP Unit 1 licensing process and resolution of opened safety issues.

5. Detailed budget

<table>
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<tr>
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6. Implementation arrangements

The decentralised implementation scheme (DIS) with ex-ante Commission control will be followed for the Project. The CFCU will be the Implementing Agency responsible for tendering, contracting, and accounting:

6.1 Implementation Agency: CFUC, Ministry of Finance

Jeana Buzduga, Director
36-38 Mendeleev, 4th floor, sect1, Bucharest
tel: 315.35.31//313.66.30
fax: 315.35.36//312.42.08

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6.2 Beneficiary: Romanian Nuclear regulator (CNCAN).

6.3 Twinning: not applicable

6.4 Non-standard aspects: Due to the specific character of the project, a significant part of the work under this project will have to be contracted to Technical Safety Organisations. Non standard aspects, in line with the "new rules for contracts in the field of nuclear safety" COM(2000)493 final, might arise.

6.5 Contract: One PHARE contract

7. Conditionality and sequencing

The Project is required to establish a link with a technical safety assistance project funded under the PHARE multi-country programme 1999 providing assistance to an operational risk assessment study for the Cernavoda NPP Unit 1 (project PH2/01/99).
The project will be sequenced as follows:

1 Q. 2002: Start of Contract letting process
2 Q. 2002: Contract agreed, including final technical terms of reference, start of work
1. Basic information

1.1 Désirée Number: RO 01.10.03

1.2 Title: EIB Recommendation in connection with the Euratom loan to the Cernavoda 2 Project

1.2 Sector: IN & EN

1.3 Location: Romania

2. Objectives:

2.1 Overall objective:
The Romanian Government requested a EURATOM loan to SNN (the Romanian National Electricity Company) on 11 May 1999. As required by the procedures established for granting a Euratom loan, four studies have been carried out of nuclear safety considerations and of the environmental impact of a completed Cernavoda-2 NPP as well as of the economic justification for this plant and of the financial capabilities of the loan recipient to repay the loan. A synthesis of these studies is to be examined by the European Bank for Investment with a view to delivering an opinion on the disbursement of this loan.

2.2 Project purpose:

The purpose of the project is to assist Romania in the assessment of its position with regard to the complex evaluation of the justification, safety, environmental impact and repayment aspects of the Euratom loan. The loan is essential for the future development of the Cernavoda Project.

2.3 Accession Partnership and NPAA priority:

There is no mention of Cernavoda 2 NPP completion in the AP, NPAA or in the recent report by the council. However, the Romanian government has reiterated that completion of Cernavoda-2 NPP is a national priority. Additionally, SNN has stated that it believes it to be a National Governmental position that use of a EURATOM loan to facilitate completion of Cernavoda-2 NPP would free national budgetary resources to address other important items in the AP.

3. Description of the Project:

This project would provide Romania with urgently required assistance in the assessment of its position with regard to the loan and in negotiating with the EIB the modalities of a EURATOM loan.

The project is described in the attached Project Description Sheet.

4. Institutional framework:

The main beneficiary of the project is the Romanian Government.
5. **Detailed budget (in M €)**

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6. **Implementation arrangements**

The European Commission will implement this project on behalf of the European Community in a centralised manner, given the close link needed between the implementing agency and the EIB.

6.1 **Implementation Agency:** European Commission

6.1.1 **Beneficiary:** Romanian Government,  
**co-Beneficiary:** SNN (the Romanian National Nuclear Power Plant Operator)

6.2 **Twinning:** not applicable

6.3 **Non-standard aspects:** not applicable

6.4 **Contract:** One PHARE contract

7. **Conditionality and sequencing**

The Project terms of reference shall be prepared and approved by Commission headquarters.

The project will be sequenced as follows:

1 Q. 2002: letting of contract and start of work.
1 Q. 2003: submission of the final report, at the latest
1. Basic information

1.1 Désirée Number: RO 01.10.04

1.2 Title: Legal advice to Romania and SNN in connection with an EURATOM loan to finance the Cernavoda 2 project

1.3 Sector: IN & EN

1.4 Location: Romania

2. Objectives:

2.1 Overall objective:

The Romanian Government requested a EURATOM loan to SNN (the Romanian National Electricity Company) on 11 May 1999. As required by the procedures established for granting a Euratom loan, four studies have been carried out of nuclear safety considerations and of the environmental impact of a completed Cernavoda-2 NPP as well as of the economic justification for this plant and of the financial capabilities of the loan recipient to repay the loan. A synthesis of these studies is to be examined by the European Bank for Investment with a view to delivering an opinion on the disbursement of this loan.

2.2 Project purpose:

The purpose of the project is to assist Romania in the assessment of its legal position with regard to the complex documentation for the Euratom loan. The loan is essential for the future development of the Cernavoda Project.

2.3 Accession Partnership and NPAA priority:

There is no mention of Cernavoda 2 NPP completion in the AP, NPAA or in the recent report by the council. However, the Romanian government has reiterated that completion of Cernavoda-2 NPP is a national priority. Additionally, SNN has stated that it believes it to be a National Governmental position that use of a EURATOM loan to facilitate completion of Cernavoda-2 NPP would free national budgetary resources to address other important items in the AP.

3. Description of the Project:

This project would provide Romania with urgently required assistance in the assessment of its legal position with regard to the loan and in negotiating the requisite documentation for the loan.

The project is described in the attached Project Description Sheet.

4. Institutional framework:

The main beneficiary of the project is the Romanian Government.
5. Detailed budget (in M €)

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6. Implementation arrangements

The European Commission will implement this project on behalf of the European Community in a centralised manner, given the close link needed between the implementing agency and the EIB.

6.1 Implementation Agency: European Commission

6.1.1 Beneficiary: Romanian Government, co-Beneficiary: SNN (the Romanian National Nuclear Power Plant Operator)

6.2 Twinning: not applicable

6.3 Non-standard aspects: not applicable

6.4 Contract: One PHARE contract

7. Conditionality and sequencing

The Project terms of reference shall be prepared and approved by Commission headquarters. The project will be sequenced as follows:

1 Q. 2002: letting of contract and start of work;
1 Q. 2003: submission of the final report.