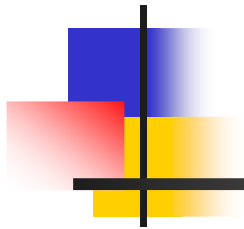


Licenses from Romanian Regulatory Body for decommissioning VVR-S Research Reactor-IFIN-HH Magurele




Mitica Dragusin

National Institute of Physics and Nuclear Engineering-Horia Hulubei-IFIN-HH

10-th Workshop in IAEA R2D2P,

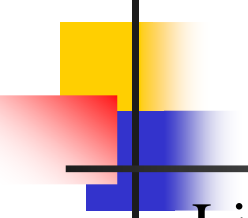
4-8 July 2011, Bucharest-Magurele, Romania

Content

- 
- Type of licenses

 - License from nuclear regulatory body-CNCAN: for deployment nuclear activities and for integrate management system for decommissioning
 - License for environmental protection during decommissioning
 - License from sanitary authority-Health Ministry
 - Urban Certificate from local authority
 - License for lifting and high pressure vessels inspectorate

Type of licenses

- 
-
- Licenses from Nuclear Regulatory Body-CNCAN
 - For implementation phase no 1 of decommissioning project for implementation immediate dismantling strategy-safely deployment of the nuclear activities
 - For integrate management system: safety & security, quality, health, economical, environmental protection.
 - Personnel authorization

Licenses from Nuclear Regulatory Body-CNCAN

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- **AUTHORISATION FOR THE DEPLOYMENT OF ACTIVITIES IN THE NUCLEAR FIELD**

No. IFIN-HH / R – 01 / 2010,

- **to DEPLOY STAGE 1 DECOMMISSIONING ACTIVITIES OF VVR-S NUCLEAR RESEARCH REACTOR AND SPENT NUCLEAR FUEL STORAGE ACTIVITIES**
- **Enters into force on: 28.12.2010**
- **Expires on: 27.12.2013**

Licenses from Nuclear Regulatory Body-CNCAN

ANNEX No 01, to the authorisation for the deployment of activities in the nuclear field No IFIN-HH/R – 01/2010

■ **I. AUTHORIZED ACTIVITIES- like as in DP**

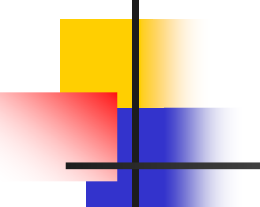
- The nuclear spent fuel storage activity allows the storage of the fuel in DCNU and fuel handling activities for transferring it from DCNU to DC with CNCAN approval.

□ **II. SUPPORTING DOCUMENTS**

■ **III. AUTHORIZATION CONDITIONS**

- A. GENERAL CONDITIONS
- B. CONDITIONS REGARDING INSTALLATIONS AND RADIATION SOURCES
- C. LIMITS AND TECHNICAL CONDITIONS AT THE REACTOR

Licenses from Nuclear Regulatory Body-CNCAN

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- D. LIMITS AND TECHNICAL CONDITIONS AT THE COOLING POND (DC) AND SPENT NUCLEAR REPOSITORY (DCNU);
 - E. SPECIFIC CONDITIONS REGARDING THE SELECTION, RECRUITMENT AND TRAINING OF “IFIN-HH - DDR” PERSONNEL PROCESS;
 - F. RADIOPROTECTION CONDITIONS;
 - G. CONDITIONS REGARDING RADIOACTIVE WASTE MANAGEMENT;
 - H. CONDITIONS REGARDING THE TRAINING AND SCHEDULING IN CASE OF RADIOLOGICAL EMERGENCY

Licenses from Nuclear Regulatory Body-CNCAN

- I. CONDITIONS REGARDING THE QUALITY MANAGEMENT SYSTEM FOR VVR-S NUCLEAR REACTOR DECOMMISSIONING ACTIVITIES;
- J. CONDITIONS REGARDING THE SAFEGUARDS CONTROL;
- K. CONDITIONS REGARDING THE PHYSICAL PROTECTION SYSTEM;
- L. REPORTING CONDITIONS AT CNCAN;
- **IV. PERSONNEL RESPONSIBLE FOR NUCLEAR AND RADIOLOGICAL SAFETY;**
- **V. RADIOLOGICAL RISK CATEGORY;**

Licenses from Nuclear Regulatory Body-CNCAN



ANNEX NO. 02

- to the authorization for the deployment of activities in the nuclear field No. IFIN-HH/R – 01/2010
- RADIOLOGICAL ZONING OF VVR-S REACTOR
- STAGE 1 OF DECOMMISSIONING

Licenses from Nuclear Regulatory Body-CNCAN

- 
- to the authorization the integrate management system for decommissioning VVR-S nuclear research reactor

No. IFIN-HH/R – 011-7/2011, Validity: 28.01.2011-28.01.2013

- - Quality Manual
- - Procedures
- - Personnel Authorizations from CNCAN

License for environmental protection during decommissioning

ENVIRONMENTAL AGREEMENT No. 1 of 09.03.2007 from

- MINISTRY OF ENVIRONMENT AND FORESTS - NATIONAL ENVIRONMENTAL PROTECTION AGENCY

- REGIONAL ENVIRONMENTAL PROTECTION AGENCY- BUCHAREST

- **I. Preparatory works necessary for the decommissioning operation**

-Before starting the preparatory works, the reactor hall will be cleared of all research and isotopes production equipment.

License for environmental protection during decommissioning

II. Decommissioning works

III. Materials used for decommissioning and site rehabilitation;

IV. Measures, equipment and protection conditions;

Polutants sources and enviromnental factors protection

1. Water quality protection;

2. Air quality protection;


3. Soil protection;

4. Noise;

5. Waste management;

6. Monitoring;

License for environmental protection during decommissioning



~~Results of the monitoring, for all environmental factors, will be sent to A.R.P.M Bucuresti, at the end of each stage and after completing the works.~~

- Environmental agreement is issued with conditions:

- Obtaining the decommissioning authorization from CNCAN.
- Obtaining the permits for the environmental protection from authorities competent for transporting and disposing radioactive waste.
- Compliance with all the specific radiological safety and physical protection norms in the nuclear field
- Notifying ARPM Bucharest about the completion of the decommissioning works.

License for environmental protection during decommissioning



~~Environmental agreement is issued with conditions:~~

- Submitting to ARPM Bucharest a report of the beneficiary on the quantities and types of waste generated as well as the results of the determinations on the level of ionizing radiations emissions, after completing the decommissioning, decontamination operations and mending of the site.
- Clearance of waste resulted from decommissioning from the license requirements of materials resulted from authorized practices in the nuclear field, will be proceeded only with CNCAN approval.

License for environmental protection during decommissioning



~~Environmental agreement is issued with conditions:~~

- Waste released from CNCAN license requirements, will follow the waste regime according to Law no. 426/2001, for the approval of GEO no. 78/2000 on waste regime, modified and completed by GEO no. 61/2006. Their transport will be made in accordance with the provisions of the Joint Order MAPAM/MTCT/MEC No. 2/211/118/2004 on the approval procedure and control of waste transport on the Romanian territory, with further modifications.
- Storage of waste released from CNCAN license requirements will be made in compliance with GD No. 349/2005 and MMGA Order No. 95/2005 on the acceptance criteria and on the preliminary acceptance criteria for the storage of wastes and the national list for the accepted wastes in each storage class.

Conclusions

- License for environmental protection:
using for: licensing from CNCAN and for
funding for state budget;
- Licenses from CNCAN-nuclear regulatory
body- for practice and management system-
all licenses, authorizations, agreements and
certificates from other governmental entities
are requested in licensing process of CNCAN